

Manufacturers Record

Exponent of America



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Baltimore, Md.
MAR 17, 1927

The Three Great Conventions Next Week.

Three meetings of far-reaching importance to the South are staged for next week.

One is the all-day meeting in Atlanta on March 22 of the directors of the National Association of Manufacturers to select the Southern city in which to hold the next annual meeting of the Association. In the evening the Association will give a banquet to the manufacturers of the State of Georgia.

When the Manufacturers Record began to urge that the National Association of Manufacturers should hold its next meeting in the South, there were many skeptics as to the possibility of bringing this about. But that has been achieved and now the question is as to which Southern city will secure the convention, a convention that will bring to the South hundreds of the foremost manufacturers of the United States, many of whom have never been in this section before.

Another meeting of especial importance to be held during the same week is the convention of the Southern Division of the American Mining Congress, which will take place in Birmingham on March 21 and 22. The American Mining Congress is a great organization which has been in existence for many years, devoted wholly to the development of the mineral interests of the United States and all things connected therewith. For the last few years it has been developing a Southern Division with a view to bringing the mineral resources of the South to the attention of the entire country and stimulating development by Southern people as well as by those of other sections. A very successful meeting was held by the Southern Division last year at Memphis. This, the second annual Southern Industrial Development Conference of that organization, to be held in Birmingham, should draw men from all parts of the South interested in the mineral resources of that section, as well as from many other parts of the country.

Another great convention, which will be in session from the 22d to the 23d of March, will be the annual meeting of the Southern Pine Association in New Orleans. During the last 12 months more than one million pieces of literature about Southern pine were distributed throughout the country. This annual meeting at New Orleans will hear of the work that has been done in the past year and learn of the plans for a greater campaign for 1927. It is needless to say that every dealer in Southern pine will be interested in that meeting and the work it will plan for the coming year.

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Table of Contents

Baltimore, Md., March 17, 1927

The Three Great Conventions Next Week.....Cover Page

EDITORIALS

Dangers Which Menace America and the World.....	65
Of Value to Railroad People.....	66
Jail Sentences for Habitual Violators of Traffic Laws.....	66
Business Stability in the South.....	67
Georgia Sets the Pace for Diversified Farming.....	67
Race-Track Gambling Illegal in Florida.....	67
National Association of Manufacturers to Hold Its Next Meeting in the South.....	68
Florida Real Estate Operations From Several Angles.....	70
A Victory for the American Plan, or Open Shop.....	71
A Great Surgeon's View on War Debts.....	71
An Organization for Reconsideration of Allies' Indebtedness to America.....	72

NEWS ARTICLES

Working to Make Known the Truth About the South.....	73-76
Low-Grade Coals and Lignite for Fuel.....By Dr. Charles William Dabney	77
The Growth of a New Trunk Line.....By Dr. Henry Mace Payne	79
Problems for Consideration at Birmingham Meeting of American Mining Congress....	82
Oklahoma, Breaker of Records.....By Charles N. Gould	83
Baltimore Building \$2,500,000 City College to Accommodate 2500 Students.....	87
Cow, Hog and Hen Week in Georgia.....By Richard Woods Edmonds	89
Iron Mountain Comes Into Its Own.....By Arthur S. E. Corbett	91
Reforestation in North Carolina.....By Paul Kelly	94
Census of Cotton Goods Manufactured in 1925.....	96
Big Year for United States Steel.....	97

DEPARTMENTS

News and Views From Our Readers.....	98	Lumber and Building Materials.....	104
The Iron and Steel Situation.....	99	Mechanical	105
Railroads	100	Construction	106
Textile	102	Industrial News of Interest.....	127
Good Roads and Streets	103	Financial News.....	132

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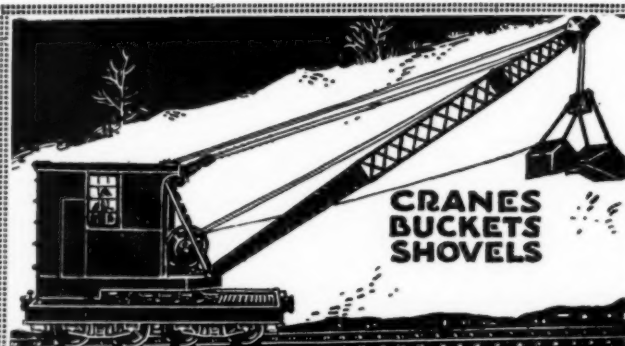
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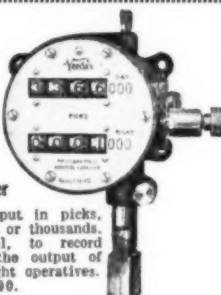
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Manufacturers Record

EXPONENT OF AMERICA

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of the South and Southwest as the Nation's Greatest Material Asset

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BALTIMORE, MARCH 17, 1927.

{ Single Copies, 20 Cents.
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Dangers Which Menace America and the World.

DONALD F. WALKER, secretary-manager of the Chamber of Commerce, Monroe, La., who had a good deal of experience in the World War, took issue a year ago with the position of the MANUFACTURERS RECORD that bolshevistic agitation and radicalism were a serious menace to the future of this country. Mr. Walker thought our position was entirely unjustified by the conditions prevailing, but in the following letter he now reverses his position and is fair and frank enough to take the opposite side and point out how bolshevism and radicalism generally are menacing the welfare of our country and, indeed, of the world. Writing under date of February 24, Mr. Walker said:

"A year ago or more you published a letter of mine criticising the policy of the MANUFACTURERS RECORD as regarded the continual repetition of its position against the growth of the radical movement in America. I took the position at that time that your publication was exaggerating the case and giving the radicals more free publicity than they were entitled to.

"Developments both in the United States, in Latin America and China since then have shown me that you did not exaggerate the situation. I am very glad to address this letter to you, admitting my error in this connection.

"It occurs to me that the United States is slowly but surely coming into an unbearable position both at home and abroad. The continual and insidious propaganda of the 'parlor pink' type is unquestionably undermining both the morals and morale of the younger generation. The spread of radical teachings among the school teachers of America has, in my judgment, reached the criminal stage. The attacks on our Army, Navy and Marine Corps, in which the radicals ignore all the actual facts in the case, must be counterbalanced by some very strenuous action. That the radicals have established a tremendous political influence in this country due to the indifference of a majority of conservative citizens, is evidenced by the fact that the determined radical block in Congress is not only in the saddle at the present time but will continue to be for the next three years at least, and there is plenty of evidence that their political influence has swayed the judgment of some of our leaders who are undoubtedly at heart conservative.

"The situation abroad, in which the conservative Governments of Europe have joined their radical enemies in jointly and bitterly attacking the United States on every possible ground, plus the direct attack on the Monroe Doctrine by 'the boring from within' tactics of the Communists, plus the situation in the Far East, indicates to the American people that the time has come when we must adopt a definite and

aggressive American policy and, at home and abroad, attempt to restore the self-respect of the American people.

"The question is too large for me to attempt to suggest a plan of action, but I do suggest to the real leaders of this country, political, social and economic, that all other questions should be subordinated until the position of the great majority of conservatives in America is made as clear as crystal to the radicals at home and to the world at large.

"I do say that one part of such a program must be the courageous facing of the problem that the world is drifting headlong to a general war and that forces are at work which can never be adjusted or compromised except through force. If the American people wish to perpetuate their prestige, their power and their traditions, they must be prepared to defend them on the field of battle within the next ten to twenty years, if not sooner. If I am mistaken in believing that the majority of Americans are conservative and still have faith in the traditions of this republic, then I, for one, will be tempted to a feeling of shame in connection with my American citizenship.

"The policies of Franklin, Washington, Hamilton, Jefferson, Jackson, Lincoln, Cleveland, Hayes, Roosevelt, Root, Hughes and Dawes, if studied and understood, will be found to average up the position of what I hope is the conservative majority in this country, regardless of partisan and sectional differences. If, on the one hand, we should pay honor to the achievements of Fulton, Morse, Bell, Haines, the Wrights and Edison, we should bear in mind that their intentions could not have been developed to their present scope of usefulness without the actual and potential protection afforded by the armies and navies of Washington, Jones, Scott, Decatur, Grant, Farragut, Miles, Dewey and Pershing. We must see the world as it is and not as we may perhaps like to have it, and be prepared, without fear or equivocation, to bury our individual differences and adopt a broad, solid program based on the tradition of the past and the actual possibilities of the future."

No thoughtful man, not biased by the foolish prejudices of pacifists and not blinded to the realities of the world, can possibly doubt the seriousness of the situation which this country and the whole world are facing. Mr. Walker is correct in his position on that. Radicalism is boring from within, both in this country and abroad. Bolshevism is actively at work in China, as in other countries. The whole scheme as is is now being pushed forward is to pull down established Governments and wreck the property interests of the world.

Back of this movement is a diabolical force, the power of which the people of this country generally do not at all comprehend. We are living in what might aptly be called "a fool's paradise," with little conception of the fact that

we are facing dangers perhaps greater in many respects than any we have ever faced in the history of America. Our very wealth is one of our dangers. Holding about three-fourths of the accumulated wealth of the world and doing more than one-half of the world's business in many lines of industrial output, with a wealth estimated at \$400,000,000,000, we are exciting the envy and hatred of the entire bolshevistic activities of all countries.

It was once said of a great German general who visited London that he exclaimed, "What a glorious city to loot!" The bolshevistic element of the world is saying, "What a glorious country to loot." And to loot this country will be the aim of these vast bolshevistic forces unless bolshevism is suppressed throughout the world, and there is no sign that this is likely to be done for many years to come.

England is facing in Asia the most serious problem that it has ever had in the Orient. The mighty change that is taking place in China is the most portentous and momentous event in all modern times. Back of that movement, to a large extent, is bolshevism. What will be the final outcome no human being can foresee.

Under all of these circumstances it would be criminal folly of the worst kind if America failed to meet any emergency which might suddenly be thrust upon us. When nations go to war they do not, in these days, wait for the nations that they desire to conquer to get ready. It is a sudden blow and then a declaration of war. If war ever comes upon us again, as the MANUFACTURERS RECORD feels absolutely certain it will do some day, our people will not know it until the first deadly blow has been struck at us. If unprepared, woe be to this country and its vast wealth and its millions of people.

National safety can be preserved only through national preparedness.

Today it is universally regarded as essential that a man shall have his life insured for the benefit of his family and his property insured to protect his investments. The expense is heavy, but the cost is justified. Unless America, with its almost boundless wealth, is ready to spend money freely for national preparedness, the time will come when, as a nation, we will be in the condition of the man who lived in abundance so long as he was making money but whose family lived in poverty when the bread-winner was gone, because he carried no adequate insurance, or the man who had vast investments in building which were swept away by fire when there was no insurance on them.

Shall we safeguard our future by wise preparedness on land, on sea and in the air? This is a question every man and woman in the country should seriously ponder.

OF VALUE TO RAILROAD PEOPLE.

J. A. BOYCE, JR., Birmingham district freight representative of the Baltimore and Ohio Railroad Company, in a letter to this paper writes:

"We have found your Blue Book of Southern Progress, 1926 edition, most interesting and of valuable assistance in our work.

"Would respectfully ask if you have prepared the 1927 edition; if not, when you would have this edition available so that we can forward you money and secure copy."

Every agent of every railroad doing business in the South or handling business to and from the South would find the Blue Book of Southern Progress of great value. It needs only a full recognition by officials of the railroads of the country that all of their representatives, both in the freight and passenger departments, the station agents, ticket agents and traveling men should be fully advised as to what the South is and what it is doing. Only in that way can they properly appraise the possibilities of Southern business.

JAIL SENTENCES FOR HABITUAL VIOLATORS OF TRAFFIC LAWS.

THERE is many a man driving an automobile who would never be permitted by a street railway company to drive one of its cars nor would he be permitted by a railroad company to handle one of its locomotives; every careful driver of an automobile realizes this fact, but the law seems powerless to remedy this condition so long as a motorist can obtain a driver's license by passing an easy test or, maybe, no test at all. The matter of the driver's temperament does not appear to be considered, but it is an exceedingly important thing, for if he be impatient, hasty or unduly nervous, he is likely to cause an accident, perhaps with grave results.

Impatience and disposition to disregard traffic laws by many automobilists are so common as to seldom cause remark. President I. B. Tigrett of the Gulf, Mobile and Northern Railroad in a recent publication, which was in part an answer to a complaint concerning the frequent blowing of whistles at highway crossings, and showing the need for it, said:

"There is a law in Mississippi which requires automobiles to come to a dead stop before crossing a railroad track. Recently we had an accident at a crossing at a town in Mississippi. A few days later a careful check showed that within a period of eight hours 532 automobiles crossed the track at this same crossing and not one of them came to a stop."

It is such deliberate and flagrant disregard of law and common sense, not only in this but in other instances, which brings about the dangerous conditions to be generally found upon highways throughout the entire country. Not only do drivers disregard signals and warnings, but they are in many cases blind as to obstacles in their way. In one year on the Baltimore and Ohio Railroad there were 35 instances in which autoists drove directly into the gates at railroad crossings when the gates were down in plain view of the drivers of the machines. And President Tigrett of the Gulf, Mobile and Northern Railroad tells of another case in which an automobile at a public crossing ran into the side of one of his company's trains and one of the occupants of the machine died from injuries received. Many reputable witnesses testified that the whistle was blown and the bell was rung before the train reached the crossing, but a jury rendered a verdict of \$20,000 against the company. However, the presiding judge set aside the verdict and, as Mr. Tigrett humorously but sensibly remarks, "has given us another opportunity to show to the jury why, after blowing the whistle and ringing the bell, we did not successfully dodge this automobile which was traveling along the highway."

When there are so many grade crossing accidents, notwithstanding the fact that locomotive bells and whistles are sounded as trains draw near highways, let one imagine, if he can, the terribly increased number of accidents that would follow if such sounds were prohibited because they occasioned some annoyance to the public. These warnings will continue to be necessary until maybe some happy day when there will be no more grade crossings, but common highways will go either over or under the tracks. At present it appears to be too costly to abolish all grade crossings and the only thing to do is to enforce the traffic laws and road rules stringently against autoists who break them, giving offenders jail sentences when second violations show they do not fear a fine. A few days behind the bars with a bucket of water and a scrubbing brush or mop, washing down jail corridors and cleaning cells, would be much more effective as a deterrent than would, say, a \$100 fine without the jail experience.

BUSINESS STABILITY IN THE SOUTH.

AN era of great industrial and commercial development in the South is forecast by substantial business men; great influxes of visitors from other sections prove that the South looms large on the map, and other evidences are conspicuous on a number of other lines.

As members of the National Business Men's Committee on Agriculture, five men of national prominence have been in the South investigating conditions in many business circles. Composing the party were John Stuart of Chicago, president of the Quaker Oats Company; A. F. McKissick of the Alice Mills, Greenville, S. C.; Magnus W. Alexander of New York, of the industrial board of the Chamber of Commerce of the United States; E. M. Herr of New York, president of the Westinghouse Electric and Manufacturing Company, and Frank D. Graham of Princeton University, economic advisor of the commission.

"Business conditions in the South, while of necessity curtailed by decreased earnings on the farm, are generally good," said Mr. Herr. "Hydro-electric power development will bring more industries to the South and will afford a greater opportunity to diversify agricultural and industrial activity. This ultimately will bring general prosperity, and agriculture will recover, as it always has done."

Among the Southern citizens from whom this committee sought information in Atlanta were B. L. Bugg, president of the Atlanta, Birmingham and Coast Railroad; E. Rivers, president of the Atlanta Joint Stock and Land Bank; Clark Howell, editor of the Atlanta Constitution; C. A. Cobb, editor of Southern Ruralist; A. M. Baldwin, president of the First Joint Stock and Land Bank of Montgomery, Ala.; J. E. Conwell, president of the Georgia Cotton Growers Association; C. C. Moser, president of the American Cotton Growers Association, and H. E. Hastings, prominent in the steel industry.

Belief that Southern opportunities are appealing to Northern people for several reasons is expressed by J. L. Edwards, vice-president of the Atlanta, Birmingham and Coast line, who is quoted as saying that most of the newcomers seeking new homes and new business are men of means who are able to take advantage of such opportunities as the South presents. In this connection he cited, for instance, large investments made in the vicinity of Brunswick, Ga., by a number of persons from the North.

"The South has an appeal for Northern people that is almost irresistible," said Mr. Edwards. "It is drawing many thousands of good Northern people to Southern cities and communities and is causing many splendid manufacturing industries to move to the South, where great opportunities are found."

There now are 35 per cent more tourists in Florida than there ever have been, says State Hotel Commissioner Jerry W. Carter after a tour of inspection of the hotel and housing situation throughout the State.

"In this statement," says Mr. Carter, "I mean people who are sightseeing, pleasure seeking and snow dodging. This does not include the opportunists and the 'binder boys' of a year ago."

The reason that no great overcrowding is evident is attributed by Mr. Carter to the fact that there are this year 85 per cent more hotel rooms and apartments than last year in the entire State, and over 200 per cent more houses, hotels and apartments in Miami, as he is quoted.

"This," says Mr. Carter, "impresses some people with an idea that there are fewer visitors this year in Florida. Such is not the case; there are just as many tourists as before, but

more accommodations for them. As evidence of the larger number of tourists in Florida this year than ever before, I find that business men throughout the State are pleased with the number of sales made this season as compared with last season, and also there were 8000 more paid admissions to the South Florida Fair at Tampa than there ever have been in the history of the State.

"I look for next season to be even greater than this. Housing facilities will be ample and more people will come to Florida because of the development of good roads and expansion of the railroads."

GEORGIA SETS THE PACE FOR DIVERSIFIED FARMING.

DURING the last week Georgia turned itself loose in a campaign for farm diversification, Governor Walker visiting different parts of the State to speak in favor of diversified farming, with many others on a similar speaking campaign. The whole State practically gave itself up, through the press and public speaking, to arouse the farmers to the vast possibilities of the "cow, the hog and the hen" campaign—in other words, to induce every farmer to have one or more cows, some hogs and some chickens.

In this respect Georgia has set the pace for every other State in the South. All of these States are constantly discussing diversified farming and pressing the matter upon the attention of such farmers as had been giving all their attention to cotton, but Georgia has led the way with an entire week devoted to a discussion of the subject, with the Governor of the State at the head of the campaign. The work has been under the direction of the Georgia Association, an organization of business men determined in every way possible to bring out the best that is in Georgia's resources.

A staff correspondent of the MANUFACTURERS RECORD, in this issue, gives a story touching here and there on the work of the week. We trust that every other State in the South will take up a somewhat similar campaign.

RACE-TRACK GAMBLING ILLEGAL IN FLORIDA.

THE Supreme Court of Florida has rendered an unanimous decision that betting on horse and dog racing is illegal and must be stopped—for which decision the people of Florida ought to be devoutly thankful.

Florida was in danger of becoming the hotbed center of the horse and dog track gambling element of the entire country. Maryland has been so completely cursed by the horse-race gambling of that State that anyone who is at all familiar with the evil in Maryland must realize that Florida will, indeed, be fortunate if it can forever be prevented from coming under the dominion of this race-track gambling element.

It has been stated that an effort will be made to legalize race-track gambling at the coming session of the Florida Legislature, and we presume that these gamblers will hold out a bait of a share of the gambling receipts for the purpose of enmeshing the State in this business through an income of this kind, as they have done in Maryland. It would be blood-money, pure and simple. It would be selling the soul of the people of all ages and classes to the gambling element of the country.

Every well-wisher of Florida and of honor and integrity and of safety for the rising generation should oppose with every possible influence the legalizing of race-track gambling in the State.

The National Association of Manufacturers to Hold Its Next Meeting in the South.

Manufacturers Record

EXPONENT OF AMERICA

Richard H. Edmonds
Editor

Baltimore

September 27, 1926.

To All Members of the National Association of Manufacturers:

Gentlemen:

The view expressed many years ago in a letter to this paper by the Hon. William D. Kelley of Pennsylvania, then familiarly known as "Pig Iron" Kelley, that "the development of the South means the enrichment of the nation," is as true now as it was then. The development of the South means more than material prosperity; it means the utilization of vast resources which are an asset to the entire country; it means an increase of wealth and power of the nation; it means an enlarged market for the manufactured products of the North and West, for the South for many years to come will be a heavy buyer of things produced elsewhere.

It is in the power of the directors of the National Association of Manufacturers to decide as to the meeting place for its annual convention. In order that the suggestion which I have made of holding the next convention in some city of the Central South may be presented directly to every member of the Association, I am taking the liberty of bringing the matter to your attention.

It is needless to remind you that today the South is commanding the attention of the nation as never before. It is becoming one of the great markets of the world for every line of manufactured goods, and its industrial progress will mean increased prosperity for the nation as a whole. The resources of the South are greater than those of any other equal area of the world, considering its almost exhaustless supplies of coal and iron ore and many other minerals, its cotton and its agricultural possibilities.

It has seemed to me extremely desirable that the business men of the North and West should, by personal contact with the people of the South and by a study on the ground of Southern resources, become fully acquainted with this section and its future. I am, therefore, exceedingly anxious that the next annual meeting of the National Association of Manufacturers shall be held at some central point in the South.

I can guarantee to you that if such a meeting be held the Association will receive a more royal welcome than it has ever received before, and that the newspapers of the Central South will give far greater attention to its deliberations than it is possible to secure in such a metropolitan city as New York. In this way the manufacturers of the South and the North and West would be brought into closer personal contact and acquaintanceship, to their individual good and to the good of the whole country.

Some years ago it was the good fortune of the Manufacturers Record to be able to induce the cotton manufacturers of New England to hold an annual meeting in Atlanta. This was one of the most successful meetings that organization ever held anywhere. Later on, at the suggestion of this paper, the American Iron and Steel Institute held an annual meeting in Birmingham, and all in attendance were most enthusiastic as to the result of that meeting and the information which they gathered in regard to the South. Other meetings of important chemical and electro-chemical organizations in the South have been brought about by the suggestion of this paper, and I am now seeking to emphasize to every member of the National Association of Manufacturers the desirability from every viewpoint of having the next meeting somewhere in the South.

Southern cities will eagerly compete for the honor of having such a meeting. A number of them will be able to furnish ample hotel accommodations and every other facility that may be needed to make such a visit attractive to the members of the organization.

Viewed, therefore, from the strictly business point, from the broad spirit of national patriotism and love of our country as a whole, and from the charm of a trip into the South in the fall of the year, I am taking the liberty of urging your favorable consideration to this suggestion and your co-operation in saying to the directors that you would heartily approve the 1927 convention being held in the Central South.

I am,

Very truly yours,

Richard H. Edmonds
Editor.

Under date of September 27, 1926, 3200 letters were mailed by the MANUFACTURERS RECORD to leading members of the National Association of Manufacturers, largely throughout the North and West, calling attention to the resources and opportunities to be found in the South, and urging that the next meeting of that organization be held in some Southern city.

It has been definitely decided, as a result of that campaign, that the next meeting of the Association will be held in some city in the South, and next week the directors will meet in Atlanta to make a final selection. Pressing invitations have been received from a number of different cities.

Merely to remind our readers of the views expressed to the 3200 members as to why they should choose the South, we repeat above the letter just as it was printed last September.

A PINE TREE.

WHEN one has studied the beautiful advertisement in the March 10 issue of the MANUFACTURERS RECORD by the Exchange Saw Mill Sales Company, with a picture of that wonderful pine tree, he is forcibly reminded of the lines by Joyce Kilmer, who, in closing his beautiful poem of the tree, said:

"Poems are made by fools like me,
But only God can make a tree."

The picture of this wonderful pine which illustrated the advertisement of that company is typical of the great pine forests which once covered so large a part of the South, but which have been destroyed to such an extent that we are now beginning to realize that the pine wood of the future will grow more and more scarce, unless by reforestation we make it possible to reproduce such magnificent trees.

As one studied the picture of this superb pine and pondered

the billions of feet of pine that have gone into the construction of every kind of work, he was forced to realize that the pine interests of the South have contributed tremendously to the building operations of the entire country, and thus while the South has been losing much of its splendid forest growth it has contributed billions of feet at a price entirely too low for the good of the seller. And the seller has been not so much the individual pine dealer as the South as a whole.

At an enormous cost to itself in the loss of many of its pine forests, the South has enriched the nation. There is still much pine of the finest kind left in the South, but it is growing scarcer year by year, and in calling attention to this superb pine tree in the advertisement mentioned we would seek to drive home upon Southern people the need of reforestation on such a scale as to insure the generation yet to come that there will be produced ample timber such as that of trees like the one pictured.

FLORIDA REAL ESTATE OPERATIONS FROM SEVERAL ANGLES.

Lakeland, Fla., March 12.

Editor Manufacturers Record:

In a recent issue of your splendid periodical I noticed a copy of a letter written by Col. Frank L. Holt, counsellor-at-law, of New city, to Col. Earl Wheeler of Daytona Beach, Fla., and while I heartily agree with Colonel Holt that some very careful work should be done in the adjustment of matters in this State so that no more people shall suffer than is absolutely necessary, there is one portion of his letter upon which I wish to make comment.

The second paragraph reads as follows: "Frankly, I think the answers to your questions lie within the control of the people of Florida themselves. At the present time it is unnecessary to say that Florida does not enjoy a very good repute in the North. It is felt that speculation was allowed to run wild and that the residents were, to put it mildly, entirely too enthusiastic in their claims and predictions."

It is true that speculation ran riot and that absolutely absurd claims were at times indulged in and predictions knew no bounds, but Colonel Holt does not take into consideration the fact that the State of Florida was at that time filled to overflowing with the so-called "binder boys," who were very careless as to both claims and predictions, and came to Florida to gain wealth overnight. These "binder boys" were none other than doctors, dentists, ministers, lawyers, bakers, butchers, merchants, barbers and people from almost every walk of life, who drifted in, as I have said, to get rich. Some of these men made good money while here and others have returned to their former vocations, either here or back where they came from. Those who came and spent their all and had a bad time getting back home naturally feel that Florida treated them rough and do not hesitate to tell everyone about it. The wealthy man who came to take advantage of the situation might have been imposed upon by some of his own townspeople, but he got badly treated in Florida, and in consequence blames it to the Floridian.

When one mingles with an enthusiastic crowd he is bound to absorb some of the enthusiasm unless he be made of stone. The people coming here in 1924 and 1925 saw visions of fortunes made overnight and risked their all to share in the gains. Some few profited and were contented with reasonable gains in finances, while others pyramided their holdings and before they could sell the reaction had set in and they are the ones who are now suffering. Do not think that it was the investor from outside the State alone who suffered. We have thousands of them living right here among us who were victims of their own desire for wealth and of the enthusiasm with which they came in contact on every side.

Another class who are ranting against Florida are those who made loans in the State prior to the "boom days" and whose collateral, owing to the spectacular advances during the boom and the pyramiding by those who had borrowed the money, is now not worth as much as it was when the loans were made. These people are not getting their loans paid and in many instances interest is delinquent.

I respectfully submit this communication simply to clear up the one point in Colonel Holt's letter, which I believe is not quite fair to the residents of Florida.

A. B. UTTER.

The points made by Mr. Utter deserve careful consideration on the part of the people outside of Florida who invested in that State, as well as on the part of local people. Thousands rushed into Florida expecting to gamble on town lots, make a fortune overnight by selling out to somebody else, taking a gambler's risk, and in many cases with the cards stacked against them, because many of these town-lot schemes were wild and visionary to the extreme, although also there were many good, substantial ones worthy of confidence.

For a hundred years town-lot booming has had its ups and downs exactly as Wall Street has its "bull" and its "bear"

periods. Nobody is surprised when Wall Street securities go to pieces overnight, and in some cases a billion dollars of values, or prices, will be wiped out in 24 hours. That is taken as a matter of course. The people who buy stocks on a margin and get wiped out because the "bears" were able to raid the market pocket their losses, say little or nothing about them and scarcely even stop to denounce the "bear" raiders who made the break. On the other hand, those who follow the lead of the "bears" and sell short are cleaned out with equal facility when the "bulls" take charge and shear the "lambs." The "lambs" give up their wool, and even their hides as well. But they seem to take that as a matter of course and rarely tell their friends of their losses or to beware of Wall Street gambling. Legitimate business goes on generally regardless of these ups and downs of Wall Street's operations, but because Florida had a "bull" movement in town lots and the "bull" market collapsed, catching local people and outside people as well, many of whom had gambled on a narrow margin, making one or two small payments and then expecting to sell the next day to some other gambler, all Florida as a State is denounced as though Florida in some particular way had been guilty of a great criminal act.

At one time about two years ago the secretary of a realtors' board publicly announced that he was officially advised there were 6000 land sharks operating in Florida who had been driven out of California. Whether that number be correct or not, it is certainly true that Florida was crowded with land sharks of many kinds and many sizes and many degrees of activity. The State also had many honest, legitimate real estate operators, or realtors as they are now called.

Many people were captivated by the boom. Thousands bought lots they were unable to pay for, expecting to sell them to somebody else before the next payment came due. This type was represented by a young man who had just graduated at the Johns Hopkins University; he secured his degree, came into the office of the MANUFACTURERS RECORD and said he had \$1100 and wanted to go to Florida, turn it over rapidly and in a few months make enough money to establish himself in another State, as he did not care to live in Florida. He was warned against making so reckless a move, but the warning did no good. He is now back in his home town trying to make a living there.

A lawyer who was doing remarkably well in his legal business in connection with real estate, having made the year before, so he said, \$20,000, although a comparatively young man, likewise came into our office with the statement that he wanted to go to Florida, take the \$20,000 he had saved out of last year's payments, make a fortune in Florida and then go elsewhere. He, too, was warned, but without avail.

A prominent suburban resident closed his house, announcing to his neighbors that he was going to Florida with the expectation of making a million dollars during the winter and return to Baltimore to enjoy it.

These are but samples of cases almost without number. They do not represent Florida. The great power and light companies, the steamship companies, the railroad companies are all going ahead with their vast improvements, representing in the last two years an expenditure of probably \$200,000,000 or more, with no thought that Florida will not fulfil all of the expectations of those who have studied its resources and advantages. They know that for 100 years town-lot booms have come and gone, that they strike here, there and everywhere, sometimes when least expected, and no power can control them. Wall Street's operations are sometimes controlled on the "bull" or the "bear" side by great banking houses, but all the banking houses in the country could scarcely control a real estate craze when it strikes any community, or stop the wild break when it starts downward.

No one need for a moment imagine that Florida will not

expand with great rapidity. Its climate is the same wonderful, glorious climate of all the ages. Its soil is productive to the extreme, and the 100,000 carloads of fruits and early vegetables which are annually shipped out of the State to feed the North and West during the winter months can be quadrupled and quintupled, and still further increased without exhausting the agricultural possibilities of the State. Industrial development can and will be carried on to a very large extent as the people of the country come to realize more and more the advantages of Florida for industrial work where factory employment can go on 12 months in the year without the costly heating plants that are needed to keep the factories of the North and West in motion.

The people who today are criticising Florida will, if they live a few years, see greater progress and far greater real prosperity than that imaginary prosperity which the best business interests of Florida sought to curb, viz., the wild gamble in town lots.

A VICTORY FOR THE AMERICAN PLAN, OR OPEN SHOP.

UPON the retirement from the presidency of the Atlanta Chamber of Commerce of William D. Hoffman, that organization adopted the following resolutions:

"RESOLUTIONS UNANIMOUSLY ADOPTED BY THE ATLANTA CHAMBER OF COMMERCE.

"Whereas, this evening our honored retiring President, Mr. William D. Hoffman, closes a most successful administration of the Atlanta Chamber of Commerce;

"An administration noted for the aggressive policies of its president, under whose leadership was set up an Industrial Relations Bureau, whose object was the maintenance of the present working conditions in the city of Atlanta of free and uninterrupted employment of all those who desire employment, regardless of their personal affiliations;

"An administration marked by the successful opposition in the courts to certain ordinances unfair to legitimate businesses in the city of Atlanta; therefore, be it

"Resolved, That we, the officers and members of the Atlanta Chamber of Commerce, in recognition of the valuable services of our president, Mr. William D. Hoffman, do by these resolutions express our appreciation and our esteem."

This was a well-deserved honor to Mr. Hoffman, not only for the general work he did as head of the Chamber of Commerce but for the signal achievements which he made in regard to the open shop, securing to the people of that community the free and uninterrupted employment of all men who desired to work regardless of their personal affiliations, whether belonging to unions or not.

The union shop, when under radical contract, represents tyranny, mental, and sometimes physical, slavery. The American shop represents American liberty, the right of every man to work when and where he pleases, for whom he pleases, without the dictation of any radical labor organization. Those who want to belong to a union organization have the unquestioned right to do so, but they have no right whatever to say that a man shall not work on any particular job merely because he is not a member of a union. If union men want to retire peacefully from their jobs, they have a right to do so unless they are under contract to continue work, but when they undertake by force to prevent other men from working or to prevent business men from selling materials to a non-union job they are guilty of a crime against American liberty.

Every movement such as that made by the Atlanta Chamber of Commerce to secure the right of every man to work independently of unionism or to belong to a union, as he may prefer, is a victory for the real liberty of the American people.

A GREAT SURGEON'S VIEW ON WAR DEBTS.

AMONG the great surgeons of the country few rank higher than Dr. W. W. Keen of Philadelphia. Dr. Keen is a man of world-wide reputation. Though in the ninety-first year of his age, he has lost none of that mental vigor which made him so widely and favorably known in this and in other lands.

In a recent letter to the editor of the MANUFACTURERS RECORD he expressed hearty approval of the position that Bernard M. Baruch had taken in a letter to this paper in favor of cancelling the Allied war debts to the United States. In reply to a letter from the editor asking Dr. Keen to elaborate his views on that point we have the following extremely interesting statement:

Philadelphia, March 11.

Editor Manufacturers Record:

All that I shall say applies *only* to money loaned to our Allies—as they are really, though not so named—to conduct the war from its beginning up to the armistice. It is not to be construed as applying to railroad material and equipment and military supplies sold to our Allies after the armistice or to loans for non-military purposes.

1. Is there anybody so simple minded as honestly to believe that sons and grandsons of the passing generation will actually be willing to pay the United States hundreds of millions of dollars annually for 62 years, say until 1980? I trow not. And when these descendants refuse to continue such enormous payments, what are we going to do about it? Fight, and in doing so spend far more money than we would be fighting for?

2. If we insist on these huge payments, we shall not only eventually lose many hundreds of millions, but shall make all our creditors our bitter enemies. Frank H. Simonds, the American war correspondent, writes that "the extent and intensity in which resentment * * * has developed in the last five years is little less than appalling." Does hatred aid in increasing our prosperity or in decreasing it?

3. What has been the result to us and to our Allies even up to the present time? We are rolling in wealth. Mr. Mellon has recently estimated that if we have no war or other great expenditure our debt will be paid off in 22 years, i. e., by 1949. If so, our Allies after 1949 will still be paying us annually for 31 years, i. e., until 1980, hundreds of millions of dollars. *How are we going to use all this money if it should really be paid?* To pay the annual national expenses while we reduce taxation to only nominal sums? It is impossible even to consider such conduct.

4. The attitude of our former Allies is deplorable, most deplorable, but it is natural. Were we the debtor nation and they are creditors, how would *we* feel and what would *we* do?

5. The millions we lent them were spent in purchasing food, ammunition and other military supplies at exorbitant prices from us, and have made many American millionaires.

6. Meantime our Allies are struggling under millions of indebtedness and heavy taxation; so heavy as to be unbearable, especially if it is to be continued for 62 years after the great war terminated. Each time when I see that Great Britain has just sent us many millions I feel ashamed of my country, for I know how my friends, our cousins overseas, are struggling under enormous taxes while our taxes are being lightened from year to year.

7. If Germany had won the war—and she came very near doing so—it would then have been our turn, as the Kaiser frankly told Mr. Gerard. What would have been extorted from us as indemnity if we had lost the war we cannot calculate. To our valiant Allies we owe in large part our escape from this calamity.

8. General Pershing candidly states that even though we *did* finally come into the war, our Allies had to "hold the lines for 15 months after we entered the war," that is to say, from April 6, 1917, until, say, July, 1918; and the armistice came on November 11, 1918. We only really got into the real fighting for four months! What a debt of gratitude we owe, especially to the British and the French, who lost millions of men, all potential fathers, while our whole loss was only somewhat over 200,000 out of a population many millions more than that of Great Britain and France combined!

9. Even though late, if we should now be as generous to our Allies as we were to China in the Boxer matter, and to Cuba, to the surprise of an incredulous civilized world, and should we cancel all the real war debts, not as a matter of

bargain and sale but as a generous recognition of what our Allies did and suffered in our defense and for our future welfare, what an exuberant gratitude they would all feel! What heavy burdens would be lifted from their shoulders, what tears of joy would they shed! How we would be cherished as "friends in need who are friends indeed," and how they would face their future with new courage, all due to our generous gift! I fully agree with Mr. Baruch when he says, "From the beginning I have felt very strongly that we should have considered as a contribution to the common cause that part of the money which was spent for military purposes. A settlement which is economically and morally wrong cannot last."

I earnestly hope we can rise to that height of altruistic service to all future generations.

W. W. KEEN.

Dr. Keen is widely known not only for his great abilities as a surgeon, but for his conspicuous work in the religious activities of the country. He brings, therefore, to the discussion of this subject a profound sense of the responsibility which America holds to world affairs, and he states the whole case so strongly that we commend his view of the matter to the readers of this paper whether they have been in favor of cancelling these war debts or opposed to such cancellation.

APPROVE MANUFACTURERS RECORD'S DEFENSE OF PROHIBITION AGAINST UNFAIR ATTACKS.

FROM a good many points in the South we have received letters of hearty commendation of the criticism of Max Wellborn, governor of the Federal Reserve Bank of Atlanta, against his vicious attack on Prohibition, in which he charged that the Prohibition laws were making hypocrites of the people of the country. In that editorial we asked Mr. Wellborn if he included himself in the list of hypocrites. Of course, no answer was given to that question, and yet it was a perfectly proper question to ask. Would the answer incriminate Mr. Wellborn as in any way a law violator?

Among the letters of hearty commendation of the editorial are the following:

Thomas M. Ferguson, Hattiesburg, Miss., writes:

"I have read a great many good things you have said about the South, but your editorial exposing Max Wellborn of Atlanta, Ga., is worth as much to the South and decent people of the United States as any article I have read from your pen.

"Long may you live and prosper and use your influence for good and the uplift of your fellow-man!"

From S. E. Tucker, secretary-treasurer, Columbia Panel Manufacturing Company, Thomasville, N. C., we have the following:

"We wish to congratulate you upon your very commendable article entitled 'Max Wellborn, Governor of Federal Reserve Bank of Atlanta, Disgraces His Position by a Vicious and False Attack on Prohibition.' The case of Anniston recited by you could, no doubt, be referred to in many other places. How any leading business man can call 'the best people of the land' hypocrites because they are in favor of the Prohibition Amendment is beyond our understanding."

T. H. White, president, White Bank, Chester, S. C., writes:

"Your decided and emphatic stand in vital matters means much to the boys and young men of our nation.

"You should receive the sincere commendation of every thoughtful father and mother in America for the vigorous stand you take against whisky.

"Your editorial in the MANUFACTURERS RECORD of February 17, 'Max Wellborn, Governor of Federal Reserve Bank of Atlanta, Disgraces His Position by a Vicious and False Attack on Prohibition,' is courageous, forceful, dramatic and touching. You don't pick 'em.

"You are a giant in the things that make for character, manhood and good citizenship. May you live long to wield such a pen! The youth of our land need you. The praying mothers want you."

AN ORGANIZATION FOR RECONSIDERATION OF ALLIES' INDEBTEDNESS TO AMERICA.

FREDERICK W. PEABODY of Ashburnham, Mass., sends the MANUFACTURERS RECORD the following interesting statement:

"The American Association Favoring Reconsideration of the War Debts is organized by a number of patriotic American men for the purpose of communicating to the people of the country at large a full understanding of the circumstances out of which the so-called war debts have arisen. Its platform is as follows:

"The purpose for which said corporation is to be formed is to obtain through an informed public opinion a reconsideration by the Government of the United States of the so-called debts of our associates in the World War from the time of our entry into the war until the conclusion of peace, and the readjustment thereof upon a basis that shall give due weight to the service rendered the United States by the armed forces of its associates in the war, to the fact that our advances to the Allies were by law declared to be for the prosecution of the war and the security and defense of the United States and to the present financial condition of our partners in the war."

"While the Association strongly favors Governmental reconsideration, it is not committed to any particular form of readjustment. It believes that the debts should not be regarded as commercial obligations and that other considerations than that of capacity to pay should be taken into account, as set forth in its platform.

"The Association wishes it to be understood that no official is to receive any form of compensation, that no paid publicity agents are to be employed, that no contribution is to be received from any but American citizens, and that membership is open to all Americans, without fees or dues, who sympathize with its platform.

"The activities of the Association will be carried on by Frederick W. Peabody as managing director at Ashburnham, Mass. The Association has no doubt that it will be abundantly financed by voluntary contributions to carry on the work for which it is organized. It is hoped, in view of the fact that the purposes of the organization are purely patriotic and that no professional publicity agents are employed, the press of the country will treat the Association with consideration and in some measure assist its efforts to get the facts before the people.

"The following is a list of the directors for the first year: Gen. William Barclay Parsons, Hon. George W. Wickersham, Hon. Robert Underwood Johnson, R. Fulton Cutting, Gen. John F. O'Ryan, Hon. George C. Holt, Henry B. Joy, Gen. John Ross Delatfield, Francis Peabody, Walter W. Price, Nelson L. Robinson, Frederick W. Peabody, Herbert T. Allen, Isaac Roberts.

"An advisory council of 100 prominent men and women, representing all sections of the country, is to be formed from names now available."

SPREADING THE GOOD NEWS IN REGARD TO THE SOUTH.

FROM far-away Akola, Berar, India, comes a letter from J. C. Mackenzie, stating that a friend of his who lives in Miami, Fla., had sent him a copy of the MANUFACTURERS RECORD and that he was deeply interested in the different articles it contained. He asks for further information in regard to dealings with American business men.

The sending of this copy of the MANUFACTURERS RECORD from Miami to India only serves to illustrate how our subscribers, when they have finished reading the MANUFACTURERS RECORD, and unless they desire to keep a file of it, can render a service to their community and to the South at large by mailing it to some friend in the North or West or abroad.

Working to Make Known the Truth About the South.

Under date of February 22 and 24 the editor of the MANUFACTURERS RECORD sent to the officials of many railroads and public-utility corporations throughout the South the following letter:

"Throughout the North and West there is a distinct thought that the South is now in some respects slipping backward. The reaction from the real estate boom in Florida, the disastrous storm and the low price of cotton have all been used to the utmost extent throughout the North and West to create the impression that the South has halted and that it will not have good buying capacity for a year or two.

"There is at the same time a certain degree of pessimism among Southern business men. They are fearing that the impression which prevails in the North and West will cause merchants and manufacturers to press their Southern collections to such an extent as to embarrass many people. I find this spirit very prevalent in Florida, and our traveling representatives and correspondents advise me that the same feeling exists in other parts of the South.

"This situation, it seems to me, appeals with tremendous power to the railroads, the hydro-electric companies and other business organizations wholly dependent for their prosperity upon the progress of the South to act promptly at the present time in carrying to the entire country every optimistic statement that can be made about the South. Instead of curtailing their publicity campaigns, as some have been inclined to do, I feel that these campaigns should be inaugurated on a much larger scale than ever before, and be pushed right now in order to turn the tide of enthusiasm at home and enthusiasm in the North and West about the South as to the potentialities of his section.

"Never, I think, was it more important than at the present moment for railroads and hydro-electric and similar organizations to make a bold stand to push the South upon the attention of the country. A spirit of this kind put into effect everywhere would dispel the spirit of pessimism in the South, would tremendously revive the interest of other sections in the resources and progress of the South, and would soon bring about a wiser spirit of activity and optimism and progress.

"Every railroad, and every hydro-electric company, and every other organization whose prosperity depends upon the prosperity of the South, is vitally interested in acting, and acting now, in such a campaign. I have no particular plan to advise. I simply want to press the matter upon your immediate attention as strongly as I can possibly do, based on a study of the South for more than 45 years. I venture the assertion that never before was the time so opportune for immediate work of this kind, and never before would it have been possible to accomplish greater results than can now be achieved by broad publicity campaigns, by a spirit of enthusiasm and optimism, whereas a withholding of publicity, or a drawing in of expense accounts for such work, will have the opposite effect. You and others in your line of work can definitely and easily decide whether there shall be a quick revival of nation-wide interest in the progress of the South, a quick revival of optimism throughout the South, or whether the opposite conditions shall prevail."

That letter was sent out for the express purpose of changing a somewhat pessimistic thought that was prevailing here and there in the South and in other parts of the country about the South. We knew the time had come when all of this pessimism should be completely banished by a broader and bigger campaign of publicity and by a spirit of optimism among Southern people in discussing the outlook. The replies which have been received are extremely interesting. Many of the writers express warm appreciation of the letter with the thought that it is calculated to do much good.

Daniel Upthegrove, president, St. Louis Southwestern Railway Company, writes:

"I have read with much interest your letter of February 22, and fully agree with you that, while there is a temporary depression in the South on account of the low price of cotton

and a certain degree of pessimism among the Southern business men, basic conditions are sound and there is no reason why the South should not continue to prosper.

"In view of the fact that agriculture is the basic industry in Missouri, Arkansas, Louisiana and Texas, served by this company, I have for several years had our agricultural department make reports of conditions along our line, and I enclose herewith copy of report dated February 10, which was sent to some 1100 leading manufacturing and wholesale houses throughout the country.

"I am a 'bull' 100 per cent on the South."

The report which Mr. Upthegrove mentions, prepared by P. T. Cole, agricultural commissioner of that railroad, reads in part, as follows:

"The slump in cotton, and prices received for some fruit and truck crops, coupled with a tendency to indulge too freely in installment buying, reduced the purchasing power of the farmer to the extent that the season closed rather unsatisfactorily. However, the producers of wheat, oats, rice, potatoes and livestock generally did fairly well. The cotton farmers are in better shape, in most cases, than they have been heretofore following a similar depression of low-priced products, because most of them have plenty of feed and are borrowing less money.

"The condition of the rice farmers of Arkansas is satisfactory when one considers the various factors influencing the final disposal of the crop. The yield for 1926 is placed at 10,017,000 bushels, as compared with 7,525,000 bushels in 1925 and 6,888,000 bushels in 1924. The average price paid the farmer for the 1926 crop to date is about \$1.05, as compared with \$1.23 in 1925. The yield per acre this past year was 53 bushels, compared with 43 bushels in 1925. The total production for the United States is placed at 41,000,000 bushels, as compared with 33,400,000 bushels in 1925 and 32,498,000 bushels in 1924. The banks in the Arkansas rice belt report conditions fairly satisfactory, while some bankers go so far as to state that they have not lost a dollar on the rice farmer the past year.

"In spite of the unfavorable season for fruit and truck crops, our movement from East Texas was greater than any time during the preceding 10 years. In 1926 we moved a total of 2359 cars, as compared with 2341 cars in 1925 and 1757 cars in 1924. The price the farmer received for tomatoes, peaches and watermelons was disappointing. The quality of these products was bad, due to excessive rains during the shipping season, which rendered many cars unfit for market. The acreage planted to tomatoes, melons and onions will show some decrease this year. The sweet-potato growers produced an excellent crop and have been getting a satisfactory price for cured stock. The average price for cured No. 1 sweets at the present time is around \$1.60 per bushel, which is satisfactory. The acreage will be substantially increased this year.

"Our territory in Arkansas is becoming interested in fruit and truck crops, and several carloads moved in mixed and solid cars composed of peaches, tomatoes, greens, beans, cucumbers, radishes, cabbage and spinach. Prices received were satisfactory and the growers made some money:

"The production of cotton throughout our territory the past year was satisfactory, but the price the grower received was very disappointing. Up to December 31 our Texas line moved 249,649 bales, as against 276,278 bales in 1925, while our Arkansas and Missouri line moved 194,745 bales, as against 148,723 bales in 1925. This shows a total movement of 19,393 bales in favor of 1926. However, there still remains in the hands of the farmers and others a lot of cotton yet to be moved, and indications are that the movement will at least equal that of 1925. The farmers received an average price of approximately 18 cents per pound for the 1925 crop, while the average price received for the 1926 crop was about 13 cents per pound. This difference of 5 cents per pound has been the outstanding cause of the depressed condition of the cotton farmers throughout the South. There still remains considerable cotton in the field which, in all probability, will not be picked. Missouri has 10 per cent in the field, Arkansas 7 per cent and Texas 3 per cent.

"Some organizations and many individuals are still talking

acreage reduction. We believe that it will amount to about 15 per cent.

"The farmers throughout our territory who have practiced some phase of diversified farming, such as dairying, hog raising, poultry and turkey raising, pecan and rose growing, and have not depended on some truck or cotton crop alone, are in good shape and are not worrying about finances for the coming year, but the one-crop farmer is in bad shape financially.

"Other bright spots in last year's operations are the facts that the farmers generally produced an abundance of corn and feedstuffs to carry their stock through until the 1927 harvest season, and several sections have a surplus of these commodities for sale.

"Farm bank deposits showed a decline in 1926 from 1925 as follows: Missouri 10 per cent, Arkansas 15 per cent and Texas 23 per cent. Liquidation of farm debts showed the following decline: Missouri 12 per cent, Arkansas 15 per cent and Texas 30 per cent. The heaviest declines in every case were shown in the strictly cotton territory. Road building shows a 10 per cent increase, use of commercial fertilizers 10 per cent increase, rural schools 10 per cent improvement, and the use of farm radios 20 per cent increase.

"There is a tendency on the part of the farmer to use better seed, reduce the acreage, diversify and cultivate more intensively. They are proceeding with caution, and are entering upon this year's work hopeful and in earnest."

J. E. Gorman, president of the Chicago, Rock Island and Pacific Railway Company, wrote:

"The Rock Island in the South is in the States of Arkansas, Louisiana, Oklahoma and Texas, and I am inclined to think the pessimism among the Southern business men is perhaps confined more to the territory south of the Ohio and east of the Mississippi rather than in the territory traversed by the lines of the Rock Island.

"Arkansas and Louisiana are, of course, affected somewhat by the conditions that confront the southeastern territory mentioned, and, likewise, certain portions of Texas are greatly affected by the very large cotton crop, accompanied by the low price received for that commodity; but, on the other hand, Texas and Oklahoma are greatly benefited by the splendid wheat crop harvested in that territory, and more particularly by the very large oil production in both of those States, and the splendid showing of this company during the year 1926 was due to a large extent to the wheat and oil development in the Texas and Oklahoma territories.

"I cannot see any occasion for pessimism in the Southern territory. Certainly the development in a manufacturing and industrial way in the Southeastern territory has perhaps been proportionately greater than in any other section of the United States, and when the western half of the territory adds a splendid wheat crop, coupled with a wonderful oil development, I cannot but think there is no reason for the South to feel they are slipping in a business way.

"It is true that a large portion of this territory at present is particularly affected by the low price of cotton; likewise in certain sections business is affected by the reaction from the real estate boom; but, taking all things into consideration, I do not believe the conditions in certain portions of the Southern territory are anything but temporary. Certainly in our portion of the South conditions, generally speaking, are very satisfactory."

Lyman Delano, vice-president of the Atlantic Coast Line Railroad Company, said:

"While it is only natural that there will be some reaction after the real estate boom in Florida last year and the subsequent storms this past fall, it is my personal observation that the general situation in Florida is more normal than last year. People are getting back to the cultivation of the soil, and I am not in any way apprehensive of the future of the State."

L. P. Dickie, executive vice-president of the Board of Trade of Tampa, writes:

"Your letter of February 22, pointing out the attitude of mind which exists in the North and in Florida, was most interesting, and I am sure that if your suggestion is followed

and publicity campaigns increased rather than curtailed there will be a greater activity in the months to come than has been the case during the past months.

"I am quite confident the recent announcement of reduced railroad fares is going to bring many persons to Florida who otherwise would not have visited our State this year.

"I believe our greatest advertising is, and will continue to be, the word-of-mouth message from our visitors this winter who have found delightful weather, interesting, enjoyable and entertaining programs, good sports, sufficient room, reasonably priced accommodations and a wide range of choice. This, to my mind, is going to be passed around throughout the country through those who have actually participated, and the reward will be great.

"Certainly it will be the writer's effort to have Tampa increase rather than curtail its publicity programs of the future."

Charlton Messick, treasurer of the St. Louis Southwestern Railway Company, writes:

"Am exceedingly glad to receive your favor of February 24, and wish to say that I consider your suggestions highly opportune. It seems to me the program you propose is just what is needed to stem the tide of opinion which may be moving against the South or the Southwest, and to bring about a renewal of interest and confidence which should make for prosperity and progress.

"I understand that Daniel Upthegrove, the president of our company, has received a similar communication from you and is, I believe, assuring you of his co-operation in your undertaking."

R. Montgomery, sales manager of the Louisville Gas and Electric Company, writes interestingly of the industrial development of that section and says:

"Your letter, addressed to Halford E. Erickson, vice-president of our company, has been referred to me, and, while you may be in position to know the exact condition of business in the South, I am quite sure that the immediate territory served by our company cannot be considered as slipping backward. As a matter of fact, Louisville and its environs have shown the most remarkable growth in their history during the past few years, and the number of building permits last month exceeded that of any month during the previous year.

"It is true that during the past six months there has been a slight depression among some of our manufacturing concerns, as has been more or less general throughout the country, but the business of the manufacturers is now picking up considerably and the outlook for the balance of this year looks very favorable.

"The center of population of the United States is making rapid strides toward the Southwest, moving at such a rapid rate that it is necessary to determine its location anew each year. It is now, I believe, somewhere in the neighborhood of Corydon, Ind., about eighty miles from Louisville.

"We now have in course of construction a hydro-electric plant which will be the seventh largest in the United States, and, as it will give us an additional generating capacity of 108,000 horsepower, it will be necessary to bring quite a number of new industries to Louisville in order to utilize the energy we will be able to produce; therefore, in co-operation with the Louisville Industrial Foundation, we are preparing to conduct a rather ambitious industrial campaign, the attached booklet being the first piece of literature issued on this subject."

John Skelton Williams, Jr., vice-president of the Georgia and Florida Railroad Company, commends the spirit of the letter sent out, in most cases on February 22, but in his case on February 24, and writes:

"I have read with interest and approval your letter of February 24 relative to the desirability of continuing energetically to bring to the attention of the people of the United States the progress, prospects and resources of the South.

"The Georgia and Florida Railway has just completed another record-breaking year, the revenue in 1926, both freight and passenger, being the largest in the road's history. The officials of the railroad look forward to a prosperous year in 1927 in its territory, marked by:

"The building of the 56-mile northern extension of the Georgia and Florida from Augusta, Ga., to Greenwood, S. C.

"Increased acreage in diversified crops.

"Development of farm colonization projects.
 "Good demand for skilled and semi-skilled labor.
 "Establishment of new industries.
 "Continued large building prospects.
 "And last, but not least, extensive construction of more good roads and the growth of the State highway system.
 "We have confidence in our section of the South."

From Lincoln McConnell, Jr., manager of the Chamber of Commerce, Macon, Ga., we have the following:

"I want to thank you very much for your letter of February 22. It strikes a keynote, and the subject it presents is well worth your following up with all the instruments at your command. The advantages of the South are more real today than they have ever been, and it is highly important that we do not lose the benefits of the material progress that has been made in impressing these advantages on the minds of those unfamiliar with the South within recent years."

Fred G. Warde, managing secretary of the Board of Trade, Brunswick, Ga., heartily commends the work of the MANUFACTURERS RECORD in sending out the letter with the view of stirring up a wider interest throughout the South and in stimulating broader activity in making known the resources of this section. He believes the distribution of that letter and the influence which will come from it will be productive of an increased amount of good to the South.

Mr. Warde, however, refers to the reaction in Florida as "the bursting of the Florida bubble." In this Mr. Warde is entirely in error. A wild town-lot speculation which cursed Florida has reacted, and that is for the good of the State. The town-lot speculation was a gambling proposition, buyers trusting to be able to sell at a higher profit to somebody else before the second payment was called or became due.

Florida itself, though fortunately halting in real estate speculation, is going forward, with probably the best tourist business this winter than it has had for many years, outside of last year, and with vast expenditures, running to \$200,000,000 or more, in the building of electric power plants and lines and the expansion of railroad facilities. However, Mr. Warde's letter is very interesting in general. He writes:

"I have your letter of February 22, and after studying the situation from every angle I reach practically the same conclusions you have. It will take a concerted effort on the part of all the commercial organizations in the South to keep up the enthusiasm we are now enjoying, so that the new era of prosperity will continue; in this way the South will make greater strides in the year 1927 than in 1926.

"The bursting of the Florida bubble and the low price of cotton did not in any way change or affect this particular section of the United States. Certainly it did not dampen our enthusiasm nor our faith, and it is our purpose this year, regardless of what other sections may do, to give more extended publicity to the potentialities of this section in general and Brunswick in particular.

"We are delighted you are taking the position that you do take in your letter, and I am quite certain it will be conducive of an immense amount of good."

W. R. Kenan, Jr., president of the Florida East Coast Railway Company, expressing his interest in the receipt of the letter, which he had read with much interest, writes:

"We are thoroughly alive to the subject referred to in your communication and concur in the deductions you have made. Our people are now working along these lines, and I feel that it will produce very good results.

"Thank you for calling our attention to this matter."

From B. G. Gildersleeve, secretary of the Chamber of Commerce, Johnson City, Tenn., we have an interesting statement of what is going on in that community, and commending the value of the circular-letter in arousing interest in the subject of still broader publicity and pro-

motion work for Southern upbuilding, Mr. Gildersleeve says:

"We acknowledge receipt of your favor of February 22 with regard to the tendency of the North and West to create the impression that the South is not progressing.

"So far as Johnson City is concerned, the policy is to combat the efforts of those in the sections named by continuing vigorously to prosecute the publicity campaign inaugurated more than a year ago, the methods we employed, beginning January, 1926, including advertising in newspapers of Boston, Cleveland, Pittsburgh, Buffalo and other points North and East, in Jacksonville, Miami and Tampa, for the reason we have been informed there were 3,000,000 visitors, from every State in the Union, in Florida last spring; in certain technical magazines and, of course, in the MANUFACTURERS RECORD.

"We then conducted a campaign, using Boyd's City Dispatch lists, and have mailed some 60,000 folders descriptive of the Johnson City district of East Tennessee. In addition to all of this we have sent a representative to interview manufacturers considering a Southern location, and have entertained several thousand visitors to Johnson City within the past 12 months.

"There is a minimum of pessimistic feeling in the section of which Johnson City is the center. It is forging ahead as never before and its future never seemed so bright as now.

"Pardon us for having gone into such detail, but we want you, as one of the staunchest supporters of the South, to know that we of Johnson City are thoroughly alive to its advantages and potentialities, and that we are filled with a divine discontent, as while the progress experienced in the past has been phenomenal, we believe, by concerted effort, that to come will be even more remarkable."

O. L. Bunn, secretary-manager of the Chamber of Commerce, Birmingham, is likewise very appreciative of the value of the letter sent for the purpose of arousing the South to immediate action to offset the pessimism in the North and West, to the effect that the South would this year suffer in its buying power. Writing in regard to the matter, Mr. Bunn says:

"I acknowledge with thanks receipt of your circular-letter of February 22 relative to the South pushing forward more rapidly this year than ever before. I believe you are exactly right and have so recommended to our directors. Unfortunately, our organization has in the past been unsuccessful in prevailing upon our citizens to spend very much money on publicity. I believe, however, that immediately after June 1, the beginning of our new year, a great change will be noticed in the attitude of our people.

"Personally, I appreciate to the fullest extent what the MANUFACTURERS RECORD is doing, and should our organization be successful in raising its stipulated amount for publicity the MANUFACTURERS RECORD will certainly get at least its proportionate share."

W. R. Cole, president of the Louisville and Nashville Railroad Company, in acknowledging the receipt of our letter, says:

"The Louisville and Nashville Railroad has for a number of years been carrying publicity of this character and there has been no diminution of its activities in this respect nor do we contemplate any at the present time."

B. F. Moomaw, secretary of the Chamber of Commerce, Roanoke, Va., gives an interesting account of the industrial progress of that city, showing that the annual payroll from increased employment during the last 18 months now amounts to nearly \$1,500,000. His statement of the situation as to Roanoke is very much worth while. It follows:

"We have your favor of February 22, calling attention to a certain degree of pessimism among business men and the impression which prevails in the North and West in reference to the Southern situation at this time.

"We have never done a great deal of municipal advertising, but instead of relinquishing our activities along this line we are preparing to increase them. We have planned to put on in March a special movement to raise a sum to be devoted exclusively to business expansion and publicity. We feel we will be successful in our undertaking, and, if so,

we will have a much larger amount to devote to publicity than ever before in the history of our community.

"Roanoke, of course, is not affected by the cotton situation, as are many of the communities in the cotton-growing States. It is our judgment from our contact with business in Roanoke that, as a general rule, our business people have an optimistic outlook. Our industries are all running at approximately full capacity and, in fact, we are now employing 1518 more people industrially than we did eighteen months ago. Our increase in annual payroll from the increased employment is \$1,447,086."

John L. Cobbs, Jr., director of Public Relations, Atlantic Coast Line Railroad Company, Wilmington, N. C., emphasizing the fact that all of the officials of that company appreciate the opportunity of making widely known the true state of affairs in the South, writes:

"President J. R. Kenly has requested that I reply to your letter of February 22. Mr. Kenly, and indeed all of our executives, shares your feeling with regard to the necessity for informing the rest of the country about the true state of affairs in the South. The pessimism and doubt to which you refer was sensed last fall, and everything written or said by members of this and other departments since that time has been prepared with a view of informing the public generally, including our own people in the South, of the basic soundness of conditions in our territory and of our own absolute faith in its continued growth and prosperity.

"In addition to material issued by this and other departments, we have made an extensive distribution of your eye-opening article, 'The South's Amazing Industrial Progress Guarantees Its Prosperity and Growth.' A good many thousand copies of this reprint were distributed by our representatives in the North, East and West, and have gone into the hands of many of the largest and most substantial business men of those sections. I have in mind the issuance of a pamphlet, based on the article referred to, that will likewise be given wide distribution.

"From what I have said I think you will see that the Atlantic Coast Line is keenly alive to the necessity of overcoming the feeling of doubt and pessimism, with regard to the South, that has unquestionably been gaining ground in other sections.

"We are watching the situation very closely and will take such further steps from time to time as the situation requires."

W. L. Stanley, vice-president of the Seaboard Air Line Railway Company, writing from his office in Atlanta, Ga., says:

"Thank you very much for your letter of February 24.

"I am very glad to advise you that this railroad, that has an ever-increasing faith in the future of the South, is not curtailing in any way its public-relation work and its efforts to bring to the attention of the country at large the splendid opportunities for investment that exist in this section.

"You, of course, are aware of the work that Mr. Warfield has been doing and the fact that his faith in the future of the South is evidenced by the expenditure of enormous sums of money since the collapse of the Florida boom.

"I shall be very glad to co-operate with you in this all-important matter, and shall appreciate any suggestion you may make from time to time upon the subject."

Rutledge Smith, general agent of the Tennessee Central Railway Company, Nashville, expresses his thorough sympathy with the points raised in our letter, writing as follows:

"The points you bring out are timely, and we are in thorough sympathy with your outline. As far as practicable we are co-operating along this line and are continuing to do so with the utmost enthusiasm and our best intelligence. Only a few days ago the Nashville Banner issued a most excellent 'Know the South' edition, to which we contributed freely in many ways, and we feel that this will aid a good work.

"I have taken occasion to send to your Mr. Gauff, at

Cincinnati, an advertisement to be inserted in your 1927 edition of the 'Blue Book of Southern Progress,' and we hope to send you something for future editions of the MANUFACTURERS RECORD within the next few weeks."

J. R. Koontz, vice-president, St. Louis-San Francisco Railway Company, writes:

"Yours of February 24, addressed to F. H. Hamilton, as to activity in connection with a proper publicity of the South and its resources:

"In our Western and Northwestern territory we have been advertising the true situation in the South, and I can say to you that the responses therefrom have been very satisfactory. We are in no sense unmindful of our obligations and duty, and I can assure you that we are pushing this matter to a proper conclusion."

National Foreign Trade Convention.

Plans for one of the most important meetings in its history are disclosed in the program of the National Foreign Trade Council for its fourteenth annual convention, to be held at Detroit, May 25, 26 and 27. As described by Chairman James A. Farrell, president of the United States Steel Corporation, the convention is designed "to afford opportunity for thoughtful examination of the present condition and future possibilities of our foreign trade; to stimulate co-operation in the best use of our resources and to secure the judgment of practical and experienced traders on the problems that confront us."

With Mr. Farrell presiding, the morning session on the first day will be devoted to addresses and the afternoon to group meetings on "Foreign Credits and Credit Information," "Import Problems and Procedure" and "Export Merchants." The second morning session is being organized in co-operation with the Canadian Board of Trade, and the group meetings in the afternoon will relate to subjects of interest to the American Manufacturers Export Association, "Advertising for Foreign Trade" and "Education for Foreign Trade."

Group sessions on the morning of the third day will discuss problems of export managers in co-operation with the Export Manager Club of New York, "Inland Problems" and "Banking Facilities." Addresses by Hon. James P. Goodrich of Indiana, "Some Hopeful Aspects of Agriculture," and Mr. Farrell, "The Foreign Trade Balance," with a report of the general convention committee, will wind up the proceedings.

All persons expecting to attend the convention are requested to communicate with O. K. Davis, secretary of the Council, 1 Hanover Square, New York city, and hotel accommodations may be obtained through J. Lee Barrett, secretary of the Detroit Convention and Tourist Bureau, 1805 Stroh Building, Detroit.

Building 110,000-Volt 48-Mile Power Line.

W. J. Baldwin, director of publicity of the Alabama Power Company, Birmingham, advises the MANUFACTURERS RECORD that all work on the company's 110,000-volt high-tension transmission line, which is being built from Martin Dam to the North Auburn sub-station on the west and from Martin Dam to Lock 18 on the east, is being done by the Dixie Construction Company of Birmingham. This new power circuit, 48 miles in length, will be of H-frame creosoted wood pole construction and of 50,000 horsepower.

The line has been made necessary, it is said, by an increasing demand for power in East and Southeast Alabama and in the Birmingham and South and West Alabama districts, into which the new circuit will feed by way of Lock 18. In order to care for the increased capacity to be made available by the line, extensive additions will be made to Martin Dam, North Auburn and Lock 18 sub-stations. Construction is expected to be completed by June 1.

Low-Grade Coals and Lignite for Fuel

MEAN A TREMENDOUS INDUSTRIAL DEVELOPMENT IN THE SOUTHWEST.

By CHARLES WILLIAM DABNEY, Ph. D.*

[Some months ago the Manufacturers Record published an important article on the use of lignites in Texas as fuel for a great electric power plant, the problem of using lignites successfully for this purpose having been fully demonstrated.

In this article Dr. Dabney brings out some of the points in connection with the uses that are now being made of low-grade coal and lignites as fuel, which opens up, as he suggests, vast industrial possibilities for the Southwest.

This article is to be followed by two others by Dr. Dabney bearing on other phases of industrial potentialities of nation-wide importance.—Editor Manufacturers Record.]

Vast improvements have been made in recent years in the utilization of all coals. For many years coal was burned for the production of heat and power only, and in the crudest way. Later attention was directed to securing the maximum amount of heat out of a given amount of fuel, resulting in many improvements in furnaces and boilers. But still the only idea was to burn the coal most effectively. When coke was made for smelting ores and tar obtained, attention was directed to the utilization of some of the compounds contained in the coal. Beginning 50 years ago, a great chemical industry has been developed, based on coal tar. It is only within the last 20 years, however, that we have commenced to appreciate fully all of the possibilities of coal. In these years the modern coke oven has been developed, which saves many of the gases and oils, as well as tar and pitch, from the coal. From these, important chemicals have been obtained for use in many industries.

But I wish to speak particularly of the new uses to which low-grade coals, such as bone coal and lignites, may be put. The improvements in using them are almost as epoch making as those used in the combustion of the high-grade coals. These improvements in the use of low-grade coal may be divided into two classes: First, the improvements in burning them; secondly, the improvements in the production and use of the various products derived from them.

For many sections of the country and many metropolitan districts it has become most important to have furnaces that will burn all grades of coal, low grades as well as high grades, without the necessity of altering their construction. In many sections of our country, like the Southwest, the Northwest and parts of the Pacific Coast, there are no high-grade coals and the resort is to fuel oils. But fuel oils are becoming too expensive to burn. In fact, since the refiners have learned to "split" all of the petroleum oils, down to the very heaviest, and make gasoline from them, fuel oils are destined to become more and more expensive. Oils for lubricating purposes will also be in greater and greater demand as the years go on. The time is not far distant when it will be considered a great industrial waste to burn petroleum. Now in the Southwest, in Mississippi, Louisiana and Texas, there are vast quantities of lignite, much of it of excellent grade, within a few hundred feet of the surface. Lignite is also found in vast quantities in Colorado and the Dakotas. A study, therefore, of the methods of burning lignites is of the highest importance.

The question of methods of burning low-grade coals is of importance also in great metropolitan centers, where the conditions surrounding the mining and marketing of coals are increasingly uncertain and variable. When coal strikes occur in one region the consumers must be able immediately to use coals of other grades, if necessary. It is of prime importance,

therefore, that the big power plant be prepared to burn any and all grades of coal that may be delivered to it. The steam engineer is as much interested in finding new and cheap substitutes for his present fuel as he is in increasing the efficiency in burning the better coals. Improvements in methods of stocking have accomplished much in increasing the efficiency of standard fuels, but they have not helped much to burn low-grade coals. The greatest improvement that has been made recently in this direction is by the use of pulverized fuel. In fact, the burning of pulverized coal has been shown to be the best method of securing the highest efficiency in the use of standard fuels, as well as in using low-grade fuels when necessary. It has been shown that by present methods, which include firing with pulverized fuel, low-grade coals, which could not be economically or efficiently burned by any other method, may be used in the ordinary plant. The earthy matter and other elements in the coal, detrimental to its efficient burning on grates, do not have the same relative effect on combustion when it is pulverized and burned in suspension.

Without going into a detailed description of the methods of burning pulverized coal, it will be sufficient to say that the coal is pulverized to approximately uniform size and is then mixed with heated air and blown in. It is an advantage also to preheat the coal before admission to the furnace. The air is preheated by fuel gases and turbulence is maintained in the furnace to obtain rapid combustion and high efficiency. When this is done, low-grade coal or lignite may be used in furnaces without altering the construction. It simply requires a heavier firing rate. In an emergency undried lignite, containing as much as 25 per cent of moisture, has been used without affecting seriously the efficiency of the plant. By adjusting the feeder speed, the engineer in charge can make up for the low B. t. u. value. Consider for a moment what would happen to the ordinary furnace if you attempted to change within a few minutes from Pocahontas or Birmingham coal to a low-grade bone coal, or to lignite, and the value of pulverized coal will be appreciated. These methods of firing pulverized fuel are going to make it possible very soon to buy coal everywhere on a strictly B. t. u. basis, as is done in only a few places now. This long-dreamed-of proposal of steam engineers will put the coal business on a just and economic basis and prevent a great deal of waste, and many disputes and lawsuits.

The high ash content of low-grade coals and lignites does not create a serious difficulty when they are pulverized and used in the method described. The methods for handling the ash from all coals have been improved. Coals having ash with high fusing point cause no serious trouble in plants operated with hollow-wall brick furnaces and simple ash-handling equipment. Furnaces compelled to use low-grade fuels, containing high percentages of pyrite, have water-cooled walls, preferably metal walls with brick facing. Ash slags, which would adhere to brick walls, do not adhere to water-cooled walls, and the occasional clinkers forming on the water screens and lower boiler tubes are easily removed.

*Dr. Charles William Dabney has a distinguished record as a scientist, an author, and an educator of note. He is a former president of the University of Tennessee and was president of the University of Cincinnati from 1904 until his retirement in 1920. Dr. Dabney is now engaged in extensive geological and chemical investigations in Texas and other States of the South.

Much of the ash by this process of blowing in pulverized coal escapes through the chimneys in the form of dust. If this becomes a serious nuisance in any community, washers may be used or, better still, Cottrell's electric precipitation system to throw down the dust. This dust has uses as building material or as filler for paints and various products.

It will thus be seen that the methods of burning pulverized coal are going to prove of great value, especially in the new superpower plants going up in our cities and later to be erected at the mines for producing electric power for distribution. With vast power plants located right at the mines, the last objection to the use of low-grade coals or lignites, namely, cost of hauling, is eliminated and the power resources of our country enormously enlarged.

In regions, like Texas and the Dakotas, where there are such vast supplies of lignite, these new methods of burning pulverized fuel in large plants are proving a great success. In the smaller plants and on railroad locomotives mechanical stokers will be used to fire the furnaces. Lignite is already being used in this way on a number of railways in the Dakotas and is about to be introduced on several roads in Texas. The Texas Light and Power Company has erected a large plant for burning pulverized lignite on the Trinity River, in Henderson county, which is operating successfully, and several other plants of similar type are under construction in that State. The new stoking appliances and pulverizing methods used in connection with the improved combustion furnaces previously designed are going to make these vast supplies of lignite available for power production on an increasingly vast scale. When cheap power is provided factories will be built to manufacture cotton and the raw materials of these regions. It means a tremendous development in the Southwest.

Suggests Delegation to Dairy Congress.

Suggestion that a committee of citizens from Alabama be named to visit Denmark and study the dairy industry in that country has been made by J. P. Holm of Birmingham to Governor Graves, who has referred it to the Committee on Agriculture in the House of the Alabama Legislature. In one letter to Governor Graves, Mr. Holm says, in part:

"Dairying and diversification are the salvation of our great South, and by developing its vast resources the South will make our beloved country greater. We in Alabama have many big manufacturing enterprises, great steel plants and cotton mills, but we are slow in cultivating the soil to its capacity, and in this respect agriculture is not keeping pace with the rest of Alabama."

Mr. Holm also is in correspondence on the subject with H. P. Olsen, president of the Olsen Publishing Company, Milwaukee, who is engineering a trip abroad by dairy men and women for the World's Dairy Congress, to be held in London next year.

Southern Dairies' "Silver Cow."

Under the engaging title "The Silver Cow," Southern Dairies, with headquarters at Washington, issues an interesting monthly publication, the number for February giving prominence to the dairy industry and its possibilities in Alabama. Also prominent in the pages is an article, "A Sales Thought," by H. J. Adair, assistant general manager, which is of value to more persons than merely those in the distribution end of the corporation. Many personal notes of interest to those connected with the Southern Dairies organization are presented, and the team-work spirit of the company is shown in an editorial, "When we Americans want to do something, be it large or small, we don't leave it up to one individual, but we organize so that each one interested can have a part." C. L. Smith is editor of "The Silver Cow."

\$500,000 Hotel for Laredo, Texas.

Plans have been completed for the proposed \$500,000 Aztec Hotel at Laredo, Texas, to be erected by the Aztec Hotel Company, Inc., in which H. C. Wood, August Richter, Thomas O'Connor and others are interested. All modern conveniences have been incorporated in the design of the structure, including Turkish bath with hot and cold plunges, rest rooms, barber shop, beauty shop and other features. The building will be approximately 105 by 105 feet, fireproof, of reinforced concrete construction, with hollow tile and stucco exterior walls and cast-stone trim.

The exterior style of architecture is an adaptation of the Spanish Renaissance, the architects having in mind the traditional Spanish influences in Laredo and surrounding territory.



NEW HOTEL TO BE ERECTED AT LAREDO.

A portion of the basement will be devoted to trunk storage, maids' locker and shower rooms, similar facilities for men, boiler room and other facilities. A feature of the equipment will be an air-conditioning system to maintain standard temperatures in the lobby, mezzanine and coffee shop at all seasons. The main lobby, designed in Aztec and Mayan architecture, will be about 35 by 65 feet, and off this will be located the clerk and registry desk, manager's office, telephone booths and telegraph office. Spacious reading and writing rooms will be located on the mezzanine, which will be accessible by a wide stairway and three high-speed elevators. This floor will also be devoted to five sample rooms, each provided with bath or shower and concealed bed. The 10 upper floors will contain 200 guest rooms, each with circulating ice water, bath and shower. The dining room will be about 32 by 62 feet, to accommodate 150, with French doors on the south side leading to an open-air dining terrace extending the full length of the building. A permanent year-round roof garden and dining room top the structure.

Plans and specifications for the building were prepared by the Kelwood Company, Inc., of San Antonio, which will also handle construction.

City Commissioners of Orlando, Fla., plan to issue bonds in the amount of \$331,000 for the construction of sanitary sewers.

The Growth of a New Trunk Line.

By DR. HENRY MACE PAYNE*

Consideration of a Gulf outlet for the products of the great Northwest had its inception over a half-century ago. The movement which has crystallized during the past five years in the activities of several large railroads to reach some port on the Gulf of Mexico has played an important part in the evolution of the Gulf, Mobile and Northern Railroad.

It was originally incorporated in 1870 as the Mobile and Northwestern, with the announced intention of building from Mobile northwestwardly to Helena, Ark., where connections were anticipated with the newly opened territory north and west. The importance of such ports as Mobile and New Orleans is much more significant at present than it was 50 years ago. The building of the Panama Canal gave Mobile, its nearest Gulf port, a strategic value to Middle West producers shipping to the Pacific Coast. The Pan-American countries lying to the south are not only growing consumers, but increasing producers. The number of steamers now booking New Orleans and Mobile for European commerce has resulted in a greatly augmented tonnage through these ports. And of major importance is the general trend of industry and both diversified and intensified agriculture in the South and the heightened prosperity of the entire section.

How the road finally veered to the north, with Chicago as its proposed destination, and the fulfillment of a half-century ambition by the present management, effecting physical connection with the greatest of the grain carriers, is a fascinating story.

When Col. William B. Mann, in 1870, got his railroad on paper, the outlook for the South was extremely gloomy. It was the era of reconstruction. The negroes, living off the fat of carpet-bag government, were unwilling to toil in railroad building. The city of Mobile, however, was firmly convinced that with an outlet to the West the port would profit, and the new company received \$151,000 from a municipal bond issue.

With this and what his associates could subscribe, Colonel Mann partially graded a roadway 24 miles to a point near the Alabama-Mississippi line at what is now Wilmer, Ala., and although some work was done on the Helena end of the project, the road was abandoned to languish for 30 years.

Chancellor Huriosco Austill, a prominent citi-

zen of Mobile, was the next to see the advantage of linking the port with the agricultural Northwest, and he interested Col. Frank B. Merrill and others in the project. Substantially following the old line, the Mobile, Jackson and Kansas City Railroad was completed in 1898 to Merrill, Miss., 50 miles distant from Mobile. The Pascagoula River, with its swampy basin, crosses the right of way at this point and presented a formidable feat of engineering. By 1903, however, the company reached the new city of Hattiesburg, with another prong of the fork extending from Beaumont to Laurel, Miss.

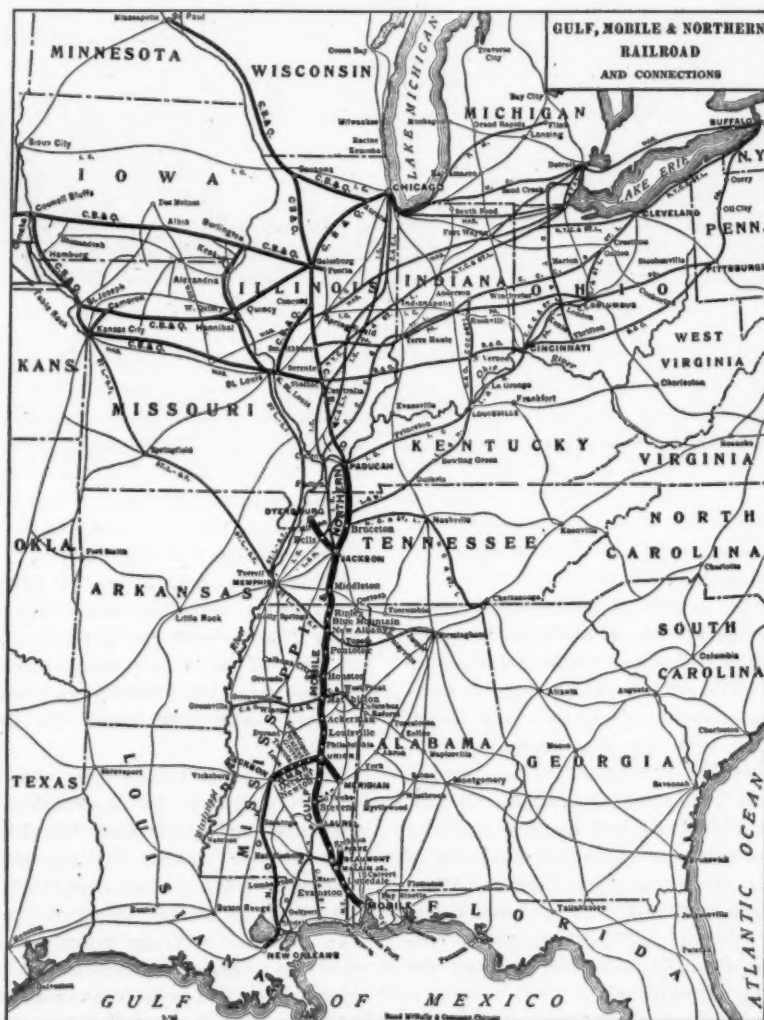
At that time the Laurel prong was considered a branch line and the builders still aspired to reach Kansas City and the Northwest, but significant developments in Northern Mississippi were destined to bring this line into prominence. Back in 1877, when Colonel Mann was organizing the Mobile and Northwestern, Col. William C. Falkner, an early citizen of Ripley, Miss., a soldier, poet and planter, had built a narrow-gauge railroad from Ripley to Middleton, Tenn. In the meantime the road had been extended southward to Pontotoc and was controlled jointly by the Gulf and Ship Island Railway (a proposed link in the present-day Gulf and Ship Island line recently taken over by the Illinois Central system) and the Ship Island, Ripley and Kentucky Railroad.

One day Colonel Merrill returned from a quiet trip to Chicago and announced that the Beaumont-Laurel branch was

the main line and the road's destination was Chicago. In 1909 the Laurel-Pontotoc connection had been made and the reorganized New Orleans, Mobile and Chicago Railroad extended from Mobile to Middleton, Tenn.

The status of the property at that time was hardly more than that of a logging road. Thus it was that in December, 1913, the New Orleans, Mobile and Chicago Railroad went into receivership, where it remained until 1917, when the old company was succeeded by the Gulf, Mobile and Northern Railroad Company.

The new owners set out to maintain adequate service for the industries and residents of the territory contiguous to the road and dependent upon it for communication. Connections were sought which would encourage new industries, develop new territory and place the road in a strategic traffic position. From the first day of Gulf, Mobile



*Geologist, Gulf, Mobile and Northern Railroad; consulting engineer, the American Mining Congress.

and Northern management the policy of the road has been an unwavering faith in the prosperity of the territory which it serves, a faith which is daily becoming justified. When the railroads went under Government control the improvement program was temporarily checked. On their return to private ownership in 1920 I. B. Tigrett of Jackson, Tenn., was elected president, and within a year thereafter the extension was completed from Middleton to Jackson, Tenn.

A branch line was built from McLain to Piave, Miss., which tapped a virgin lumber section, and the purchase of the Meridian and Memphis Railway from Union to Meridian, Miss., secured another outlet.

The extension from Middleton to Jackson, Tenn., however, gave the road financial security, and under a program of efficiency, economy and development its prosperity began. The importance of this move from a traffic standpoint is obvious. The connection with the Frisco at New Albany and

and hitherto inaccessible timber section between Lena and Jackson, Miss. Its Burlington and Frisco connections will enable the Gulf, Mobile and Northern to handle a huge volume of grain and other commodities for Gulf transshipment, and the ambitions of its early builders, oddly enough, will be fulfilled. The Mobile and Northwestern wished to tap the Northwest; this has been done. The Mobile, Jackson and Kansas City Railroad would have reached Jackson, Miss.; this has likewise been accomplished. The New Orleans, Mobile and Chicago would have reached both New Orleans and Chicago; this, too, has been done.

To appreciate the improvements made by the Gulf, Mobile and Northern in its operation from 1922 to 1925, an improvement which placed it first among the roads in the country, it is necessary to review not only the historical setting we have noted but the character of its traffic.

Even 10 years ago, when the Gulf, Mobile and Northern



THE CITY OF MOBILE, WITH A VIEW OF THE RIVER.

with the Southern at Middleton had already given the Gulf, Mobile and Northern outlets to the West and East; the resulting Illinois Central and Nashville, Chattanooga and St. Louis Railway connections made at Jackson and the Louisville and Nashville junction at Bells (via the Birmingham and Northwestern) provided a less circuitous route to Chicago and the Middle West. In addition, there were several east and west lines crossing the road, which made it widely accessible for either freight or passenger traffic.

In August, 1926, through the acquisition of trackage rights over the Nashville, Chattanooga and St. Louis from Jackson, Tenn., to Paducah, Ky., and a reciprocal traffic relationship with the Burlington over its Ohio River connection whereby the Gulf, Mobile and Northern receives the latter's Gulf-bound tonnage, a new transportation structure was erected.

The Gulf, Mobile and Northern in the meantime secured authority from the Interstate Commerce Commission to purchase the capital stock of the Jackson and Eastern Railway from Union to Lena, Miss., and announced its intention of rehabilitating this road and extending it to Jackson, Miss., where a reciprocal agreement with the New Orleans Great Northern Railroad will, by July 1, 1927, give physical connection and another Lakes-to-Gulf trunk line, serving the two ports of Mobile and New Orleans.

The Jackson and Eastern extension will open up a rich

was organized, its chief purpose was to haul logs from the woods to the mills and to haul the sawn product to connecting lines. The amount of return tonnage was low and passenger traffic negligible. Today it serves 693 miles of main line and branch territory with operating methods resulting in high efficiency. When the extension from Lena to Jackson, Miss., is completed, its total owner and controlled mileage will be 733.

Recognizing that after the first harvest of timber little, if anything, remains, and that lumber was being cut far faster than it was being replaced, the management decided not only to make such connections as would make the road an important intermediate carrier, but also to develop new industries along its lines. In either capacity efficiency is essential.

Figures compiled by the chairman of the Car Service Rules Committee, Transportation Division, American Railway Association, showing the 10 Class 1 railroads of 400 miles or over making the greatest improvements in car-performance factors, 1925 over 1922, placed the Gulf, Mobile and Northern at the top of the list.

In 1926 the average miles per car per day for the year was 43.3. The best record was in May with 47.8, which, exclusive of bad-order cars, was 50.2.

During that year 99.8 per cent of all available cars were

delivered before midnight. The average gross tons for freight trains, both directions, was 1272, with peak in October, both directions, 1374 tons. Gross ton-miles per train-hour (including locomotive and tender) during 1926 was 15,589.

Due to improved equipment and hearty co-operation of employes, the number of pounds of coal consumed per 1000 gross ton-miles has been reduced from 181 in 1921 to 121 in 1926. On this road an engine failure is defined as one which delays a passenger train five minutes or a freight train 20 minutes. These were reduced in two years from 347 to 104 per year. Train accidents were likewise reduced 23.5 per cent and personal injuries 57.4 per cent in four years.

These performances would be less significant if the increased efficiency had been accompanied by increased transportation costs. As a matter of fact, transportation costs for wages of trainmen and engineers, locomotive repairs and engine-house expense, fuel and other locomotive and train supplies saw a steady decline from 1920 to 1926. The total ratio of expenses to earnings decreased from 118.34 in 1920 to 68.15 in 1926.

The roadway is being constantly improved. The ruling

afforded for originating freight and additional gateways, will all provide greater receipts at connections.

Commodity distribution will be much more diversified and as a result traffic will become more stable. Two important cities will be added to the lines—Jackson, Miss., and New Orleans, La.

The road also passes through the center of a rich non-metallic mineral area in Mississippi, abounding in clays of various kinds, refractories, novaculite, bentonite, paint pigments, glass and molding sand and lignite. At Louisville, Winston county, a 44-inch vein of sub-bituminous coal has been opened. The super-refractory baukite also is shipped from this point.

One of the chief problems of the railroad and of the State of Mississippi is to populate and cultivate the cut-over lands, to grow crops, to establish dairy and stock farms, to encourage the fabrication of raw materials near the source of production and to bring the prosperity of industry to idle but fertile stump land.

At Mobile the company has a waterfront property of 103 acres upon the Government-dredged channel. The new \$10,000,000 port terminal system being built by the State of



THE DOCKS OF THE GULF, MOBILE AND NORTHERN RAILROAD, AND TURNER TERMINALS.

grade is 1 per cent compensated. The main line is ballasted with gravel and slag and contains 70 per cent treated ties. The alignment of main line is 79 per cent tangent and 21 per cent curves. Sixty per cent of the main-line trestles are ballast-deck and 40 per cent open-deck. Seventy to 90 pounds steel and locomotives averaging 37,029 pounds tractive effort give some idea of the metamorphosis from the logging road of 1917.

While forest products have declined from 84 per cent of the entire tonnage in 1922 to 57 per cent in 1925, other tonnage originating in the territory has been increased 60 per cent, so that with the repopulation of the cut-over area and the general trend of industry and agriculture in the South the management are optimistic as to the ultimate tonnage production of its territory.

In addition to this, the immediate increase in tonnage and revenues through the longer haul and the diversion of the Burlington's southbound freight, with additional outlets

Alabama is directly connected by means of a belt line from its interchange yard to the Gulf, Mobile and Northern tracks. The road also serves all other docks at Mobile by switch movement and is the only railroad at Mobile operating a lighterage system, enabling it to make shipside delivery to any vessel at any docks or loading in midstream.

\$500,000 Improvements at Macon.

Macon, Ga.—Important improvements have been started to the cotton mills here of the Bibb Manufacturing Company which will involve an estimated expenditure of \$500,000. According to W. D. Anderson, president of the company, machinery is being rearranged and new equipment is being substituted for old. Alterations will be made to mill No. 1 at a cost of approximately \$40,000, it is said, and to mill No. 2 at a cost of \$100,000. Contract for the latter is said to have been awarded to A. C. Samford of Montgomery, Ala.

Important Problems Scheduled for Consideration at Meeting in Birmingham of American Mining Congress.

Industrial leaders of the country are scheduled to deliver important addresses on measures contributing to the development of the South at the second annual industrial development conference to be held by the Southern Division of the American Mining Congress at Birmingham, Ala., on March 21-22. The speakers will include Members of Congress, mayors of Southern cities, State geologists, railroad executives, editors, engineers, tax experts, members of State development boards, lumber manufacturers and bankers. The conference will consider the outstanding economic problems of the South and measures for their solution, based on replies to 8000 questionnaires recently sent by the American Mining Congress to Southern business and professional men for the purpose of obtaining their views on these problems. An analysis of the replies will be given and the conference will be asked to express itself as to measures for affording a better knowledge, utilization and broader development of Southern natural resources. Governors of Southern States are appointing official delegates, and representatives will also attend from trade organizations and mineral and other producers.

James L. Davidson, secretary of the Alabama Mining Institute, will welcome the delegates to the conference at the opening session in the Tutwiler Hotel at Birmingham at 9.30 A. M. Monday, March 21. Response will be made by J. F. Callbreath of Washington, D. C., secretary of the American Mining Congress. There will be a rollof of States, with responses by State geologists and others. A message will be received from Richard H. Edmonds of Baltimore, editor of the *MANUFACTURERS RECORD*, and W. L. Stanley of Atlanta, vice-president of the Seaboard Air Line Railway, will speak on "The Functions of Transportation in Industry." Also Judge James A. Emery, general counsel of the National Association of Manufacturers, will deliver an address. At an afternoon session, beginning at 2 o'clock, "Simplification of Federal and State Taxation Problems" will be discussed by McKinley W. Kreigh of Washington, D. C., chief of the tax division of the American Mining Congress, and M. O. Leighton, consulting engineer, of Washington, D. C., and former chief hydrographer of the United States Geological Survey, will speak on "The Partnership of Coal and Water-Power."

On the evening of March 21, beginning at 6 P. M., an informal dinner will be held, at which the presiding officer will be Dr. Henry Mace Payne of Washington, D. C., consulting engineer to the American Mining Congress. Mayor Hilary E. Howse of Nashville will speak on "Water-Power's Relation to Manufacturing." L. J. Folse of Jackson, Miss., manager of the Mississippi State Board of Development, will speak on the work of that body. J. H. Hand of Yellville, Ark., special agent of the Arkansas Department of Geology and Mines, will also speak, as will R. G. Brown, manager of the Logan-McClure Lumber Company of Louisville, Miss., on "The Impetus Behind the Development of Raw Materials in Mississippi." Representative M. C. Allgood of Alabama will speak on "Diversified Farming and Industry."

At the morning session at 9.30 on March 22 Waldo Newcomer, chairman of the board of the Baltimore Trust Company, Baltimore, Md., and former president of the American Bankers' Association, will speak on "Banking and Mining," and William Crooks, consulting engineer, of Little Rock, Ark., on the "Development of Southern Natural Resources." On Tuesday also Henry Swift Ives of Chicago will deliver an address on "Putting the South in the Nation's Show Win-

dow." The concluding business of the convention will be the passage of resolutions and election of officers of the Southern Division of the American Mining Congress.

Beginning at 2 P. M., March 22, the delegates will be taken on a sightseeing trip around the industrial region of Birmingham. That evening the delegates will go to Mobile, Ala., for a three-day trip of inspection, ending March 26. On March 23 the delegates will inspect the new State terminals and other industrial development works at Mobile as guests of the Gulf, Mobile and Northern Railroad. On the evening of March 23 they will leave for Laurel, Miss., where on March 24, they will be guests of the city of Laurel and visit the fiber-board plant and other industries, and the fruit, horticultural and agricultural district in the cut-over belt of Southern Mississippi. On the evening of March 24 they go to Louisville, Miss., where on March 25, they will be guests of the Rotary Club of that city on visits to a new coal mine and mineral deposits in Winston and Noxubee counties. On the evening of March 25 the delegates leave for New Albany, Miss., where, on March 26, they will make an automobile trip to various mineral properties, and then go by train to Amory, Miss., to inspect a new pottery and a recently opened gas well, proceeding through the field of oil-drilling operations, with side trips to asphalt rock and ocher fields.

Use of Gas and Electricity in Baltimore.

"The Public's Answer" is the title of a handsome publication of 50 pages, by Arthur W. Hawks, Jr., which comprises the yearbook and annual report of the Consolidated Gas, Electric Light and Power Company of Baltimore for 1926. The first thing that meets the eye on opening the book is a full-page picture and brief description of the new power development in the city, viz., the Gould-street station of the company that was first operated in December. Only the first unit is at work, but about \$4,000,000 has been invested in this plant, and it is stated that this one unit can generate more electricity than could all of the company's generating equipment in 1910. Ultimately the Gould-street station will represent an investment of \$10,000,000. The plant is laid out for the installation of generators having a capacity of 213,000 horsepower.

The rest of the contents of the book give an interesting story of the company's operations. It is particularly notable that most of the people in Baltimore live in individual dwellings, and this home ownership is largely responsible for the stability, growth and contentment that prevail. Gas and electricity are used freely. The total gross operating revenue of the company during 1926 was \$24,710,603.90, an increase of 8.64 per cent over 1925. Net operating revenue was \$8,130,766; total revenue, \$8,509,380.87. Surplus for the year after fixed charges and dividends was \$2,623,704.95 and total surplus \$10,796,770.26.

Work Begins on \$2,250,000 Building in Tulsa.

The Long Construction Company, Kansas City, Mo., general contractor for the erection of the proposed \$2,250,000 office building in Tulsa, Okla., for Waite Phillips of that city, advises the *MANUFACTURERS RECORD* that it is now excavating pier holes for the structure. As previously detailed, the building will be 100 by 140 feet, 21 stories, of steel frame construction with cut stone and brick exterior. It will have two entrances and will be equipped with six high-speed elevators. Keene & Simpson are the architects and Edward Buehler Delk consulting architect, both of Kansas City.

It is said that this will be the only setback type of building west of St. Louis.

Oklahoma, Breaker of Records.

THE NEW STATE THAT REFUSES TO STAND STILL—NOW TURNING OUT \$500,000,000 ANNUALLY IN MINERAL WEALTH.

By CHAS. N. GOULD, Director of the Oklahoma Geological Survey, Norman, Okla.

Oklahoma is becoming so used to surpassing its past records in new wealth per year and establishing new ones that the thing is becoming monotonous. Especially is this true in the matter of mineral resources.

In December, 1924, in an article in the *MANUFACTURERS RECORD*, I set forth the fact that the annual new wealth in Oklahoma derived from minerals approximated \$400,000,000, and that the total wealth from minerals to that date was over \$3,000,000,000. Since then over two years have passed, and in each year the mineral wealth has approximated \$500,000,000 annually, so that counting up to January, 1927, the wealth derived from minerals totals something like \$4,000,000,000.

All this has been brought about within a comparatively short time. Oklahoma got off to a late start. While the neighboring States were busy developing their resources and laying down the foundations of their material prosperity, Oklahoma lay dormant. Missouri was admitted to the Union in 1821, Arkansas in 1836, Texas in 1845 and Kansas in 1861. Oklahoma did not become a State until 1907. For half a century it was the Indian's land, and white men were not welcome.

The so-called Five Civilized Tribes (or Nations)—Cherokee, Creek, Seminole, Choctaw and Chickasaw—owned or claimed practically all the land now embraced in the State of Oklahoma. During the first half of the Nineteenth Century these people had been driven from their ancestral homes east of the Mississippi by the encroachment of white settlers, and had been assigned to new lands west of Arkansas. The ancient treaties recited, "As long as fire shall burn, as long as water shall run, as long as grass shall grow, this land beyond the Father of Waters shall be to you and to your children." Having once suffered from the depredations of the white man, and well aware of his greediness for land, these people were naturally suspicious and strove to insure the preservation of the new abode to themselves and to their posterity.

These were an agricultural people. Not the "Wild Indians of the Plains," nomadic, bloodthirsty and savage; not yet Cooper's Indians, demigods in paint and feathers, but for the most part they were quiet, home-loving farmers and small stock growers. Land was not held individually, but belonged to all members of the tribe. Nor was land considered valuable. A young man would take unto himself a wife from among the maidens of his people; build a log cabin hard by a mountain spring, plant a little field of corn and a truck patch, earmark a few half-wild razor-back hogs, brand a few cattle and live on the products of the farm, the pasture and the forest. There were no large towns and only a few small villages. There were no railroads or other lines of communication except stage lines. Consequently there was little interchange of ideas. Each nation had its own separate government, and managed its own affairs without regard to the United States Government or to any other outside Power.

The soil was fertile. Great stretches of prairie land occupied the western part of the area and noble forests grew in the eastern section. Ten large rivers, with valleys as fertile as those of the Danube or the Ohio, crossed the territory. There was an abundance of building stone of various kinds—limestones, sandstones and granites. Coal was known to exist, but was not considered valuable. There were bold springs of salt water, and ranges of hills of massive white

gypsum which extended for a hundred miles. The magic stores of petroleum and natural gas, since discovered beneath the surface, were as yet undreamed of.

The climate was mild. The borderland of forest and prairie made the territory the natural habitat of a large and varied fauna and flora. Buffalo and antelope on the plains, and bear, deer and wild turkey in the forest provided game in abundance.

During the three decades following the transfer of the Five Civilized Tribes to their new home west of the Mississippi, comparatively little progress was made in the development of the natural resources. The people were happy and contented, satisfied with conditions as they existed. There was little incentive toward improvement, and ambition was all but lacking. The products of the farm and the fruits of the chase supplied most simple needs. Life was Arcadian in its simplicity.

Then came the Civil War. Many of the Indians were slave owners, having come from slave-holding States, and the more prosperous had brought their negroes with them. As might have been expected, most of these Indians joined their fortunes with those of the Confederacy. The Indian had little to gain but much to lose. It was a white man's quarrel, but a red man's sorrow.

After the close of the war the United States Government, as a punishment for joining the Confederacy, compelled each of the five tribes, except the Cherokee, to cede back to the Federal Government a part of its domain. The Cherokees were to sell to various Indian tribes who might wish to settle in the "Cherokee Strip." To this new territory, which occupied approximately the western half of the original Indian country, the name Oklahoma, Choctaw for "red people," was given. The part remaining to the Five Tribes, the eastern half, was known as Indian Territory.

For several decades following the Civil War the General Government pursued the policy of settling in the new territory thus acquired various tribes and scattered remnants of tribes of northern and plains Indians which the white man had dispossessed of their tribal homes in various parts of the United States. After all this had been accomplished, and the greater part of the territory had been parceled out to the tribes, a tract of land remained in the central part of the area which had not been assigned to any Indian tribe. After several premature attempts this area, then spoken of as the "Unassigned Lands," but usually since known as Old Oklahoma, was finally thrown open to settlement at high noon April 22, 1889.

It was a horse-race settlement. Each man ran for what he wanted, and took and kept what he could get. Settlements sprang up as if by magic. Such towns as Guthrie, Oklahoma City, Norman, El Reno and Kingfisher, county-seats, were in the morning bare prairies and at nightfall cities of tents and wooden shacks, with thousands of people. Every quarter section of land had its owner. Roads were opened, school-houses were built, newspapers started, postoffices established and the elements of civilization were set to functioning.

During this time the white man had gained a foothold in Indian Territory. Several railroads had been built. Cities were springing up. Coal was being mined at several points and shipped to Oklahoma and to adjoining States. Oil and gas had been discovered; asphalt was being taken from the ground, and there was growing an insistent demand for State-

hood. After much delay treaties were entered into with each of the Five Civilized Tribes, and the land was surveyed and divided, each Indian citizen receiving his individual allotment. Tribal relations were broken up. Finally, after these things had been accomplished, a constitutional convention was held and at that time a constitution was written and later adopted by the people, and on November 16, 1907, Oklahoma was admitted to the sisterhood of States.

Oklahoma has an area of 70,057 square miles of land, being larger than any State lying east of the Mississippi River. The State as a whole may be thought of as a vast plain, sloping southeast from an elevation of about 5000 feet in the northwest corner to less than 400 feet in the southeast corner. This plain is interrupted by four mountain uplifts—namely, the Ozark Mountains in the northeast corner, the Ouachita (Wash-e-taw) Mountains in the southeastern part, and the Arbuckle Mountains and Wichita Mountains in the southern part of the State. Of these four groups, the Ozark and Ouachita Mountains extend beyond the border of Oklahoma into adjacent States to the east, while the Arbuckle and Wichita mountains lie entirely within Oklahoma. None of these are lofty, as mountains go, but all have typical mountain structure, being uplifted, truncated domes, usually with cores of igneous rocks flanked with sedimentaries.

A considerable part of Eastern Oklahoma consists of low, sandstone hills arranged in parallel ridges, with many ledges of limestone along the northern border of the State. Central Oklahoma consists largely of flat plains composed of red clay shales, known as the red beds. Most of the higher plains of Western Oklahoma are loosely consolidated formations, chiefly sand and clay.

The soil is fertile. With the exception of comparatively small areas of rocky land in the mountain areas and the gypsum hills region of some western counties, there is a very small percentage of the land in Oklahoma that may not be cultivated. The broad valleys and the vast stretches of level prairies upland contain deep, rich, productive soil capable of providing a great variety of crops.

Much of Eastern Oklahoma was originally heavily timbered, and in the Ouachita Mountains great forests of pine, oak and hickory are still to be found. In the sandstone hills country of the eastern counties there is much hardwood. Cypress, holly, sweet gum and other Gulf coast trees occur in the southeastern counties. Mistletoe, the State flower,

is found growing chiefly on the elm, in the eastern and southern parts of the State.

Western Oklahoma was a prairie country. The principal prairie grass, known as blue stem, is found growing abundantly throughout Central and West-Central Oklahoma, but throughout the "short-grass country" of the western counties it gives place to buffalo grass, which forms a sod carpet on the prairie. The principal trees along the streams in the western part of the State are cottonwood and elm. Strips of sand hills north of several of the rivers in this region are covered with jack-oak timber.

The great increase in value of mineral wealth has been brought about largely by the discovery and production of petroleum and natural gas. Forty-two of the 77 counties in the State now contain oil or gas fields. Some of the largest productive fields of high-grade refinable oil in the world are found in Oklahoma. As an example may be cited the fact that during several months of 1915 60 per cent of the high-grade oil of the world came from the Cushing field of Oklahoma. The Bartlesville sand horizon of Northern Oklahoma and Southern Kansas, as a whole, has produced more high-grade gasoline oil than any other single geological horizon in the world. Such fields as Glenn, Bristow, Burbank, Healdton, Hewitt, Garber, Cromwell and Tonkawa, to mention only a few among the 290 oil and gas fields of the State, have produced and are still producing vast stores of oil. The total amount of oil taken from the 60,000 wells which have produced oil in Oklahoma approximates 1,750,000,000 barrels, valued at more than \$2,000,000,000. In 1926 the production of oil in this State amounted to 179,272,000 barrels, and the end of the upward climb is not yet in sight. No one knows, or can know, for many years how much longer this flood of black gold will be poured forth.

Associated with the oil there are vast stores of natural gas. During the year 1925 Oklahoma produced over 209,000,000 thousand cubic feet of gas, valued at \$32,000,000. Most industrial plants in Oklahoma use natural gas for fuel, and most homes in the cities throughout the State are heated with natural gas. With the oil and gas industry has also grown up the natural-gas gasoline, or casing-head gasoline industry, so that something like 400,000,000 gallons of casing-head gas, valued at \$41,000,000, are produced in Oklahoma each year.

When the oil and gas in Oklahoma have been exhausted, there is plenty of coal to fall back on. The United States Geological Survey is authority for the statement that there are lo-



PARTIAL VIEW OF AN OKLAHOMA OIL FIELD. IN 1926 THE STATE PRODUCED 179,272,000 BARRELS OF PETROLEUM.

THE T

cated in the hills of Oklahoma 79,000,000,000 tons of coal, which, at the present rate of mining, is sufficient to last for 26,000 years. There are ten beds of coal which are of workable thickness under present economic conditions, and a still larger number of thin beds, which some day may be burned in the ground and the heat utilized for the production of electricity for transmission to distant points on high-power lines.

A single county in Oklahoma, Ottawa, produces more zinc than all the rest of the United States. The amount for 1925 was 280,000 tons of zinc concentrate, valued at \$42,000,000. Associated in ore beds with zinc is lead, of which about 80,000 tons, valued at approximately \$14,000,000, are produced yearly.

Southern Oklahoma contains vast deposits of asphalt. More than 50 separate outcrops of asphalt are known to exist. Sometimes this material is in the pure form, such as grahamite, gilsonite or impsomite, and sometimes it consists of rock impregnated with asphalt, forming either sand asphalt, lime asphalt or shale asphalt. There is no way of estimating the number of millions of tons of asphalt in the State, but it is very probable that Oklahoma contains more asphalt reserves than any other State in the Union.

Of structural materials, Oklahoma has a very large variety and inexhaustible amounts. Granite is found in three places—in the Arbuckle Mountains, in the Wichita Mountains and in one locality on the flank of the Ozark Mountains. In the Arbuckle Mountains the area occupied by granite exposed on the surface is 100 square miles. The Wichita Mountains, 80 miles long and averaging 20 miles wide, are made up almost entirely of jagged granite peaks. All of this granite is of high grade and suitable for a great variety of purposes.

Limestone of good quality, suitable for building stone, for road material, for the manufacture of Portland cement rock, for burning into lime, for concrete rock, and for all ordinary purposes to which limestone is ordinarily put, occurs in six widely scattered areas throughout Oklahoma, chiefly in the eastern and southern parts of the State. Sandstone is found in every county in the State. Portland cement rock occurs in widely scattered areas, and associated with it are fuels for development. Sand and gravel for building purposes and road materials occur in practically every county. Clay and shale, for the manufacture of brick, sewer tile and other clay products, are widely distributed.

Some 15 counties in Western Oklahoma contain vast beds

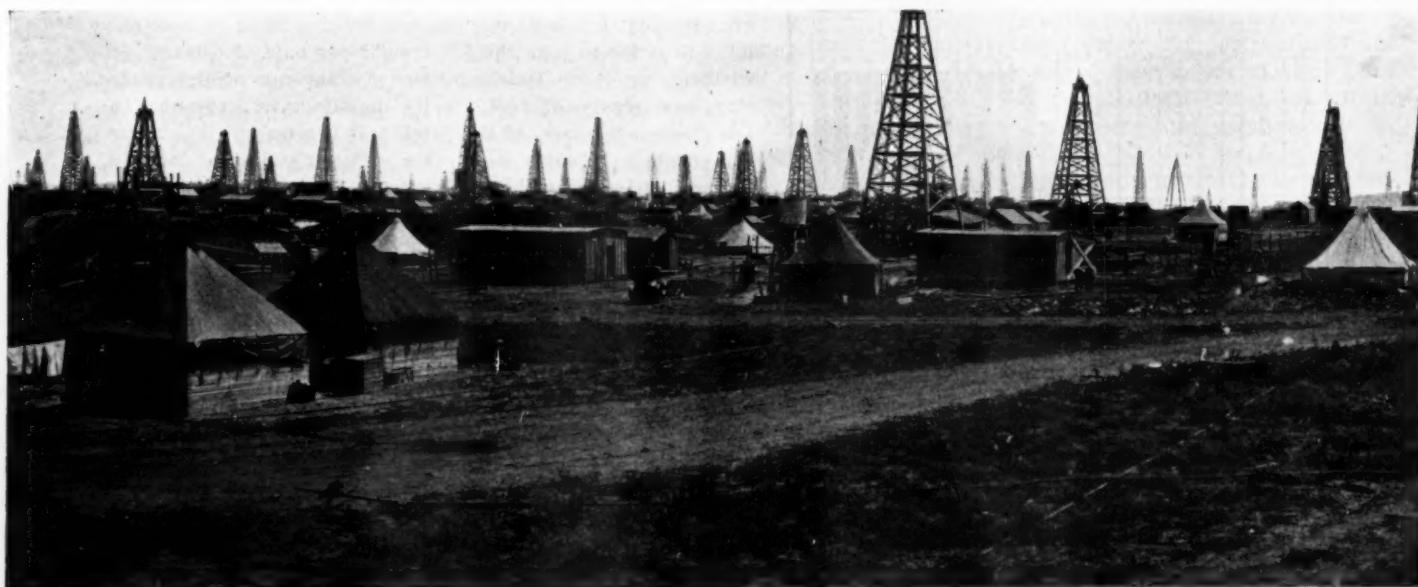
of gypsum. It has been estimated that there are in the State 123,000,000,000 tons of this material, enough to keep 100 mills, manufacturing 100 tons a day, busy for 34,000 years. In other words, Oklahoma has enough gypsum to manufacture the wall plaster and other gypsum products to supply the world. Seven regions of salt springs in western Oklahoma supply enough salt water, now going to waste, to manufacture 100 carloads a day. There are also enormous salt reserves in the form of rock salt.

Thus it will be seen that Oklahoma possesses the chief essential minerals, namely, fuels, structural materials, and the metals, except iron, upon which our modern civilization is based. These are minerals which add to the wealth of any State possessing them, and without which no State can arrive at its best development.

At the present time, however, with the exception of petroleum, gas and zinc, these vast natural resources are largely dormant. Oil money and zinc money are easy money, spectacular; appealing to the imagination and credulity of mankind. Partly for these reasons, oil and zinc have been developed out of their due proportion in Oklahoma, and more rapidly than the other and perhaps more substantial mineral products. At any rate, the greater part of Oklahoma's minerals are as yet undeveloped. Today Oklahoma produces no sewer tile, no salt, and very little lime. Much of the granite, gypsum plaster, Portland cement and building tile used are imported from other States. With abundant raw materials and fuel for the manufacture of these products, there is no legitimate reason for importing many of these things. However, each year more quarries, plants, mines and industries are being established for the development of the dormant mineral resources of the State.

Next take agricultural products. The development of Oklahoma's agricultural wealth has kept pace with, and in some cases exceeded, the development of mineral wealth. Several things conspire to make Oklahoma well adapted to a wide diversity of agricultural products, the most important of which are soil and climate.

On account of difference in altitude and a consequent variation in rainfall, there are in different parts of Oklahoma widely divergent systems of farming, each determined by local conditions. The wheat farmers from Kansas and the Dakotas prosper in north-central and western sections. The corn farmers from Nebraska and Indiana are found along the fertile valley lands of the central and eastern sections.



THE TOTAL AMOUNT OF OIL TAKEN FROM OKLAHOMA FIELDS TO DATE IS VALUED AT OVER \$2,000,000,000.

The cotton farmers of Texas and Georgia are in the southern half of the State. The lover of the plains, broad views and lots of outdoor life will be found in the north and west. The one who prefers the more sheltered quiet of valleys and timbered hills will have selected the extreme east. The big cattle man, seeking cheap grazing lands in large areas, finds them in the high plains of the west, in the Osage country, or the mountains of the southeast. The hog, poultry or dairy farmer can select from many counties and find conditions favorable. The fruit and truck grower will be in the more sheltered protection of the hills and timber. But

the border line between the North and the South, has three staple products—cotton, wheat and corn. All three of these crops are often raised on the same farm. In general, however, Southern Oklahoma, on account of warmer climate and more general rainfall, produces the best cotton. Northern and Western Oklahoma produce the best wheat, because this is naturally a prairie country with a clay soil and a cooler climate than other parts of the State. In the western counties, where the rainfall is not always sufficient for corn, the various sorghum crops, such as kafir, milo maize, fetereta, sudan grass and amber cane, are extensively raised as feed crops.

Oklahoma crops for 1926, in spite of the low price of cotton, show a total value of \$308,538,000, the State ranking eighth in the Union. In cotton it takes second place, it ranks second in winter wheat, and leads in the production of broomcorn.

In former years Oklahoma was the stockman's paradise. Before the opening of the country to settlement, great herds of long-horned, dun-colored Texas cattle roamed almost at will over the broad prairies. The nutritious grasses indigenous to the soil, the abundant water supply and the healthful climate make Oklahoma one of the best cattle countries in the world. With settlement, old conditions have changed. Instead of half-wild long-horns there are now thousands of well-kept herds of purebred Herefords and Jerseys; instead of the tough, wiry cow pony one finds the draft horse and occasional racer, and instead of the long-nosed, razor-back hog there is the Poland China and the Berkshire. The annual value of livestock and dairy products is around \$150,000,000.

From the fine forests in the Ouachita Mountains of McCurtain, LeFlore and Pushmataha counties, in the southeastern part of the State, lumber valued at \$4,800,000 was cut. Hardwood forests, chiefly oak, hickory and elm, occur in many of the counties in the eastern part of the State.

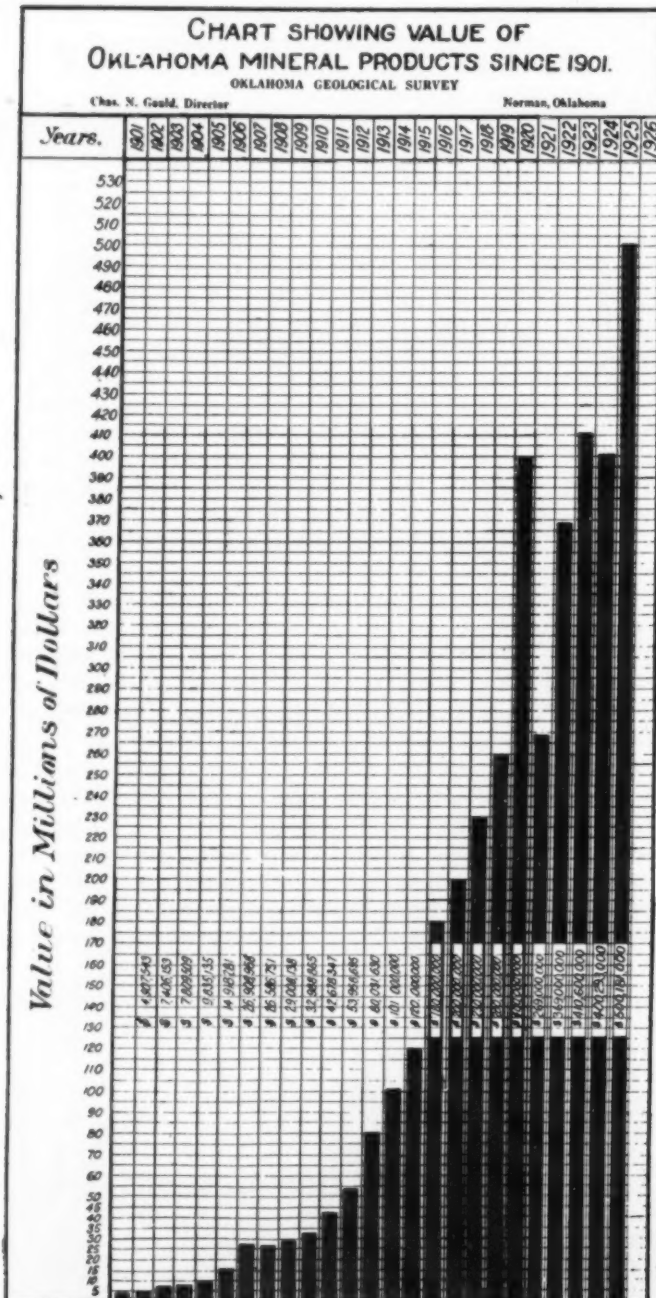
In manufacturing, Oklahoma has scarcely struck its stride. The country is yet too young. Its energies have been devoted more largely to the rapid development of the more primitive occupations—agriculture and mining. Heretofore it has been easier to import manufactured articles from other States than to manufacture them at home.

To cite one example from among many: Estimates show that on the average it costs \$8 freight on a bale of raw cotton from the Oklahoma cotton platform to the New England cotton mill, and \$17 freight on the manufactured product from the mill back to Oklahoma. The people of Oklahoma are learning this fact, and are establishing their own cotton mills in order to save the \$23 freight per bale of cotton. So with clay products: Oklahoma has vast amounts of high-grade clay, and plenty of fuel for its manufacture. Up until a few years ago much of the brick and tile used in the State was made in Kansas and other adjoining States. Within the past few years, however, plants have been established in many parts of Oklahoma, until at the present time the greater part of the brick and tile used in Oklahoma is manufactured in the State.

The largest manufacturing industries in Oklahoma are the refining of petroleum and the extraction of gasoline from natural gas. Other manufacturing plants include flour mills, creameries, cotton-oil mills, packing plants, glass plants, gypsum plants, lead and zinc smelters, and Portland cement plants. The total value of the manufactured articles in Oklahoma approximates \$400,000,000 a year.

It is doubtful if another State in the Union can show such balanced industries; in round numbers these are: \$500,000,000 in new wealth each year from minerals, nearly \$500,000,000 from farm products and \$400,000,000 from manufactured articles.

The State University at Norman enrolls 4500 students a



in almost any county are produced successfully and profitably all of these varied crops, and occasionally a single farm grows them all. Oklahoma is thus seen to be a State of varied conditions and producing a large variety of crops and livestock. Few equal it, and probably none excel it, in opportunities for unmolested pursuit and acquisition of a home, contentment and a competency.

Whereas some Southern States have but one major crop—cotton—and such States as Kansas and Nebraska have two staples, namely, wheat and corn, Oklahoma, situated on

year, including the schools of Arts and Science, Fine Arts, Law, Medicine, Education, Engineering, Pharmacy, Journalism, Business, etc. The Oklahoma Agricultural and Mechanical College at Stillwater has an enrolment of 4000 young men and women. There are, in addition, six teachers' colleges, five departmental agricultural schools, a women's college, a school of mines and a military school. These schools are supported in part by large endowments of land. A number of denominational schools are located in the State. The total enrolment in various schools of higher education for the year 1925-26 was around 35,000.

Transportation facilities are ample. Four trunk lines of railroad traverse the State, in addition to several subsidiary lines. There are more than 6000 miles of railroad in the State. Interurban lines serve more than 20 cities. According to the law of Oklahoma, every section line is a public road, and hard-surface roads which are now being built in most counties form a network crossing the State in all directions.

Life flows in the same orderly, safe, law-abiding fashion in Oklahoma as it does in other States. The customs, laws and kindly hospitality observed here are not materially different from that in other States. There is in Oklahoma more pep and determination to succeed, because only people of energy and an inclination to try something more promising pioneer a new country. So things move faster in Oklahoma. The traveler finds nothing particularly different here. He will see a country beautiful and varied in topography. He may ride on just as well equipped trains, put up at as modern hotels, eat as good food, transact business as expeditiously, in as attractive offices and with as keen-minded men, find amusement at as good theaters or golf grounds, meet as refined and charming women, attend as good churches and hear as eloquent preachers, and in general live as pleasant and as strenuous a life in Oklahoma as in other States. In a few hours' ride he may pass through level uplands like Central Illinois; hills and rolling prairies, like Iowa; hills covered with pine and hardwood, like Tennessee, or rugged granite mountains, like New England.

Oklahoma is pre-eminently the young man's country. Other things being equal, a man may make more advancement, attain a greater eminence in his profession, or achieve greater success in business in five years in Oklahoma than he will in ten years in many of the older States. Oklahoma is not hampered by tradition, and precedent interferes very little. One thing, and only one, is asked of a man; namely, that he produce results.

There are no heroes; neither Clays nor Calhouns, Lincolns nor Lees. The people are not particularly interested in ancestors, but they are tremendously interested in the half-million boys and girls growing up in their midst. The State has no past, as have many of the older States, and, queerly enough, the people do not care for one. Oklahoma is a country with a future, and there are those who would rather live in a country with a future than one with a past.

Plan \$300,000 Hotel at Thomasville.

Thomasville, Ga.—H. D. Atkinson of this city and associates are organizing a company to build a commercial hotel here at a cost of more than \$300,000, including \$40,000 for furnishings and equipment. The structure will be eight stories, 120 by 95 feet, fireproof, of reinforced concrete, brick and tile, with concrete foundation, tile and marbleoid floors and built-up roof. Frank A. Winn, Jr., of Tampa, Fla., is the architect. Mr. Atkinson, who is a contractor, states that construction will be handled in a manner somewhat similar to methods he used in rebuilding "Three Toms Tavern," which was completed in about sixty working days.

Baltimore Building \$2,500,000 City College Which Will Accommodate 2500 Students.

Work is in progress on the new City College in Baltimore, the actual building costs to amount to more than \$2,300,000. The general contractors are the Charles L. Stockhausen Company, Inc., Baltimore, who built the foundations to grade, and J. Henry Miller, Inc., Baltimore, who is now building the superstructure. Buckler & Fenhagen of Baltimore designed the buildings and general ground layout. No changes have been made in the original competitive plans.

The new college is located in the northeastern section of the city, opposite the Baltimore Stadium. The site contains about 34 acres and numerous oaks add to the attraction of the grounds. It is the hope of city officials that eventually one junior high school, one primary school and two additional wings to the present building may also be built on this site.

The building under construction is 360 feet long and 300 feet wide, of collegiate Gothic architecture, a modification of Thirteenth Century Gothic. Deep, narrow-arched windows, with steel sash and leaded panes, suggest the early English universities. Random rubble masonry is used throughout as the exterior face, and trimmings are of Indiana limestone. The exterior includes many features resembling the general architectural layout of Princeton University. Floors are of reinforced concrete and the gymnasium, swimming pool, auditorium and boiler room are of structural steel.

The structure will be three stories, with classrooms and departmental rooms in the two main divisions, and the school auditorium in the center. Spacious courts separate each section. There will be a total of 50 classrooms, 12 science laboratories, 3 large commercial rooms, where typewriting, book-keeping and general business methods will be taught, and other facilities. An attractive feature will be the central auditorium, to seat 2000. Every detail for theatrical performances will be taken care of, including a large stage and four dressing rooms.

Numerous meeting rooms will be provided for social activities. Departmental societies, class-meeting rooms, literary societies, endeavor clubs and fraternities are all to be given assembly places. The faculty will have its own social quarters, and administration offices and conference rooms will be conveniently located on the first floor.

The first basement will provide space for a gymnasium, swimming pool, lockers, showers and cafeteria, the gymnasium to be large enough to provide indoor athletic training for all students. A swimming pool, 48 by 128 feet, will be the second largest indoor pool in the East, it is said, the United States Naval Academy pool being slightly larger. It will be of standard size to meet intercollegiate requirements. A cafeteria with modern equipment will be capable of feeding the student body, service being provided to handle 800 persons at one time. Electrical, mechanical and ventilating equipment will be located in the secondary or lower basement.

A notable feature of the building will be a cathedral-like tower, located in the center and rising 150 feet above the front elevation. This tower, of six stories, will contain various student activity rooms, the second floor being devoted to a trophy room. To the east of the main building, about 150 feet away, a power plant, 80 by 120 feet, is being erected to house all heating equipment. Complete manual training facilities will be provided. Five shops—mechanical, electrical, sheet metal, woodworking and printing—will be located in the power-plant building, which will be connected by an underground tunnel with the main building. This structure will be of reinforced concrete, brick and limestone trimmings and will conform in design to the Gothic of the main building.

Grading and building of walkways will begin in a few

months, and details arranged for a general athletic field, which will be located in the rear of the main building. Twenty tennis courts will be laid out.

When completed the school will be one of the largest and finest high schools in the country, with accommodations for 2500 students. It is being built under the direction of the Public Improvement Commission of Baltimore, and will be paid for out of a \$21,000,000 school loan fund. Henry G. Perring is supervising engineer, Walter H. Goertz, Albert P. Meyer and Howard L. Harker, all of Baltimore, are assistant supervising engineers.

Sub-contractors include the following: Hudson Cement and Supply Company, cement; Falls Road Quarry Company, spawls; Baltimore Brick and Supply Company, exterior face brick; Lloyd E. Mitchell, Inc., plumbing and heating; F. Phillips & Sons, granite points and chisels; General Supply and Equipment Company, toxement; Excelsior Brick Company, common brick; Clough & Malloy, granite; J. F. Rausch & Co., placing steel; Eastern Hardware and Supply Company, nails; Minch and Eisenbrey Company, linoleum; Pen Mar Company, hydrated lime, waterproofing fire brick; Dietrich Brothers, annealed wire; W. S. George & Co., unload and haul structural steel; James J. O'Meara, unload and haul limestone; Monumental Clay Products Company, interior face brick; Timothy Bresnan & Sons, excavating work; Consolidated Supply Company, floor clips; J. Francis Booraem, care Seager & Brady, swimming-pool specialties; Phillip-Kell Company, ornamental and miscellaneous iron; David Luptons Sons Company, skylight over auditorium; D. M. Andrew Company, limestone; J. G. Valiant Company, painting and glazing; Carter Bloxonend Flooring Company, flooring; William E. Cotton & Co., roofing, sheet metal and waterproofing; William F. Zeller Company, dampproofing; Heise and Bruns Mill and Lumber Company, millwork; Edward L. Kaufman & Co., glass; Enterprise Wire and Iron Works, wire work; Maxwell Miller, models; H. B. Joyce, lightning rods; J. B. Dunn & Sons, Inc., marble, tile, terrazzo and slate; Atlantic Elevator Company, elevator; Harry B. Leopold, photographs, all of Baltimore.

Lumber was supplied by the Canton Lumber Company of Baltimore and by D. Stewart Jessup of Govans, Md.; the Howard P. Foley Company, Washington, D. C., was awarded contract for electrical work; J. Jacob Shannon Company, Philadelphia, Pa., concrete nails; Thomas P. Gatch & Sons, Raspeburg, Md., and Harry T. Campbell & Sons, Towson, Md., faced and rough stone; Indiana Limestone Company, Bedford (Ind.) limestone; J. G. Dempsey, Philadelphia, steel inspection; Henry Hope & Son, Ltd., London, England, steel windows; American Enameled Brick and Tile Company, enameled brick; Concrete Steel Company, reinforced steel; Anchor Fireproofing Company, partitions, all of New York; McClintic-

Marshall Company, Pittsburgh, Pa., structural steel; E. H. Friederich Company, Holyoke, Mass., kalamein work, elevator doors and tin-clad doors; Hall Safe Company, Cincinnati, vault door; Sargent & Co., New Haven, Conn., hardware; Lord and Burnham Company, Irvington, N. Y., conservatory; Baltimore office of the Truscon Steel Company, Youngstown, Ohio, flat rib metal lath; John O. White Company, Cincinnati, Ohio, membrane waterproofing, and Western Waterproofing Company, St. Louis, Mo., ironite waterproofing.

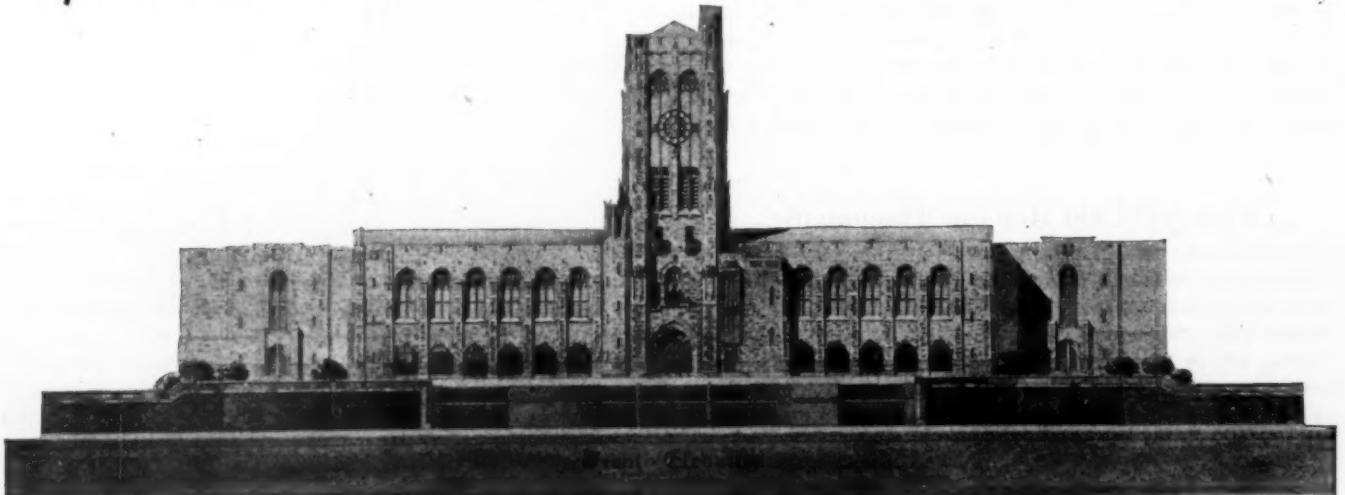
Asks Bids on \$1,500,000 Courthouse.

Asheville, N. C.—Sealed proposals will be received until April 5 by the Buncombe County Board of Commissioners, E. M. Lyda, chairman, for the erection of the proposed courthouse and jail building here to cost approximately \$1,500,000, including \$200,000 for furnishings and equipment. As previously outlined in the MANUFACTURERS RECORD, the building will be 14 stories, basement and sub-basement, 120 by 130 feet, of steel, granite, limestone and marble, with ornamental columns on the seventh to the tenth floor, tile roof, marble, terrazzo and composition floors, metal casement windows, vapor heat, cell work and ventilating. It will be equipped with one freight and three passenger elevators and will contain a garage in the basement. Milburn, Helster & Co. of Washington, D. C., and Durham, N. C., are the architects.

The following contractors have been invited to submit bids: George A. Fuller Company, James Baird Company, James Stewart & Co., Inc., Miller Engineering Company, all of Washington, D. C.; Consolidated Engineering Company, Baltimore, Md.; Turner Construction Company, J. W. Cowper Company and Southern Ferro Concrete Company, all of Atlanta, Ga.; Angle-Blackford Company, Greensboro, N. C.; Hunkin-Conkey Construction Company, Northeastern Construction Company and Palmer-Spivey Construction Company, all of Charlotte, N. C.

Two Gadsden Papers Merged by Birmingham Interests.

Gadsden, Ala.—The Gadsden Times has been purchased by W. S. Mudd, B. H. Mooney and T. Buford Goodwin, all of Birmingham, who have also absorbed the Gadsden Star, which loses its identity, as it is said the new paper will retain the name of the Times. Publication will be continued by the Gadsden Times Publishing Company, a new organization, of which Mr. Mudd will be president, it is stated; Mr. Mooney, publisher, and Mr. Goodwin, general manager.



NEW CITY COLLEGE BUILDING BEING ERECTED IN BALTIMORE.

Cow, Hog and Hen Week in Georgia.

A STRONG MOVEMENT FOR IMPROVEMENT OF AGRICULTURAL CONDITIONS THROUGHOUT THE STATE.

[Special Correspondence Manufacturers Record.]

Atlanta, March 13.

The Cow, Hog and Hen Week celebrated in Georgia last week had a twofold purpose: First, it aimed to drive home to the farmers more forcibly than had ever been done before the absolute necessity for diversification on the farm; second, to teach the "small town" bankers and merchants that neither they nor the farmers can prosper unless they co-operate with the farmers as fully as they can in carrying out a diversification program.

The Georgia Association, moving spirit back of the Cow, Hog and Hen Week, has published statistics showing that Georgia's annual consumption of creamery butter is 50,000,000 pounds, while its annual production is only 5,000,000; its annual consumption of beef is 191,000,000 pounds, while its production is only 98,000,000; its annual consumption of pork is 264,000,000 pounds, while its production is 66,000,000 pounds; that the story of eggs, poultry, corn and hay in the State is the same, and that, to sum up, Georgia annually imports from \$150,000,000 to \$160,000,000 worth of farm and dairy produce that should be raised, sold and consumed within the State.

"Until our farmers produce at home enough food for their families and feed for their livestock, with a surplus of one sort or another to sell throughout the year, they will never know prosperity," Governor Clifford Walker said in opening the Cow, Hog and Hen Week in Ashburn, Ga. "Only in this manner can the annual drain of \$150,000,000 on our State be stopped and our farmers enjoy a prosperity that will make them large depositors and profitable customers for our bankers and merchants."

Following the Ashburn meeting, in which other addresses along the same line were made, similar meetings were held in towns throughout the State, including Clifton, Moultrie, Valdosta, Quitman, Albany, Bainbridge, Columbus, Athens, Lyons, Marshallville, Douglas, Waycross and Fitzgerald, and at points along the line from Savannah to Augusta.

Ashburn was well chosen for the opening meeting of the week, for in Ashburn the plan advocated by the week's campaign had its birth in the State a few years ago. When the boll weevil reached the territory around Ashburn—Turner and neighboring counties—it devastated them. The farmers tried an alternative crop—still a single crop—without success. The following year they tried another, with the same sad story. The town, wholly dependent upon the surrounding farmers for its prosperity, found itself in desperate straits. Finally, under the able leadership of one of its citizens, the business men financed the erection of a creamery; found it necessary to finance the purchase of purebred cattle to replace the scrub cattle of the surrounding farms in order to supply their creamery; found that it paid and went deeper.

Cows, hogs and hens and diversified crops of many sorts gradually brought such prosperity to the farmers and to the town as cotton had never given. In Ashburn now there are none of the starvation years inseparable from a single-crop system. It is the cow, hog and hen plan of Ashburn, Turner county, Georgia, that was advocated all over the State last week by many able speakers.

It is realized that for the farmer this diversification program means learning to plant and cultivate crops he has never before planted; buying cows, pigs and chickens of ex-

cellent strain, and carrying on, of necessity, a business of a very different sort from the former simple cotton farming. A farmer is a farmer, but new crops and a diversity of them introduce new problems.

To make the change a farmer must invest more money than he owns, must learn new methods, and must invade new and strange markets. Here come in the business man and the banker of his nearest town. The banker must lend money on livestock—a form of security new to him. The business man must co-operate with the banker to organize creameries and meat-packing plants, and co-operative organizations for the marketing of the produce must be formed in order to furnish a market for the new products. Both of them must work together to help get for the farmer the right sort of instruction in selection and cultivation of new crops, livestock and equipment. Only in this fashion can the strange new venture of the farmer be carried out successfully, his profits assured, the bankers' loans repaid, and the prosperity of the farmer-customer shared with the merchant and other business men of the town.

Strange as it may seem, the education of small-town business men and bankers to the value, even the necessity, for such co-operation for the farmer's good is as necessary and as difficult as the education of the farmer to the new system. Every merchant likes prosperous customers; every banker wants large depositors. It is perfectly simple. Why does any small-town merchant and the small-town banker hesitate a moment in entering upon a campaign for the enrichment of their farmer-customers? For the simple reason that a whole new system of business is demanded of them as of the farmer. The carpet-baggers of Reconstruction days after the Civil War fastened upon the Southern farmer a system whereby he bought on credit his supplies for the coming year, including clothes and food for his family, feed for his animals, fertilizer and farm implements—bought them at exorbitant prices, and at high interest rates, and gave therefor notes secured by the cotton crop to be made. Cotton only was to be planted; the supply merchant could buy food elsewhere and sell it to the Southern planter at a large profit.

To this day the same ruinous system is continued to a considerable degree by merchants and bankers; not wilfully, but because they have never known another. They have never caught the vision of prosperity through customers capable of buying liberally for cash at a moderate profit per unit of goods sold, or of deposits many times the present ones. Bankers are afraid to lend on so new and, to them, untried a security as livestock. They prefer to lend on something that does not exist—a cotton crop yet to be made—not because it is safer or nearly so safe, but because they are familiar with it.

Today, however, the men who carried through the Cow, Hog and Hen Week declare that a new understanding seems to be dawning. They find small-town bankers and business men receptive as never before to the new ideas. They feel that far better times for farmers and all concerned are not so far around the corner as once they appeared to be.

It is not the plan of the Georgia Association to drop its efforts with the close of last week's campaign. Last week was a publicity effort; the real work of the association is planned to continue in the future, as worked in the past, to establish county agents in the 80-odd Georgia counties still lacking them; to promote, where feasible, settlement of ready-to-go farms, and in all ways legitimate and proper for a

private organization to co-operate with the State College of Agriculture to render its efforts more effective and to supplement its machinery for the improvement of agricultural conditions throughout Georgia.

RICHARD WOODS EDMONDS.

Galveston to Vote on Levy for Municipal Advertising.

Galveston, Texas.—Unanimous approval of a proposition to submit to a vote at the regular city election on May 10 the question of levying a property tax of one mill for municipal advertising has been given by the board of directors and advisory board of the Chamber of Commerce, L. W. Reed, president. This action of the Chamber of Commerce, it is said, practically assures the matter coming to a vote, as Mayor J. E. Pearce has announced that the Board of City Commissioners would call an election if the tax were favored by the Chamber of Commerce.

Mr. Reed has been authorized to appoint a committee to prepare a charter amendment and submit it to the Mayor and Board of City Commissioners before April 1. It is understood that this committee will be appointed within a short time and will be given full power to act on all subjects pertaining to the proposed amendment.

Offering \$7,500,000 of Bonds—To Acquire Utilities in a Number of States.

As recently announced in the MANUFACTURERS RECORD, the Federated Utilities, Inc., of Chicago, A. E. Peirce, president, is offering through West & Co., Philadelphia; H. M. Byllesby & Co., Federal Securities Corporation and Thompson, Ross & Co., Inc., all of Chicago, and Hambleton & Co., Baltimore, an issue of \$7,500,000 of 5½ per cent first lien collateral trust gold bonds. Proceeds from the sale of these securities will be used in part for the acquisition of properties, to retire indebtedness and for other corporate purposes.

The company will acquire operating properties and through them will furnish public-utility service in various communities in Michigan, Indiana, Pennsylvania, New Hampshire, New York, Kentucky, Tennessee, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Alabama and Florida.

Baltimore Commercial Company Organized.

The officers and directors of the Baltimore Commercial Bank have organized the Baltimore Commercial Company, which President Gwynn Crowther says will fully meet the need that has existed for some time of putting at the disposal of depositors and customers of the bank a complete service for counsel and advice in making safe and sound investments. The authorized capital of the company is \$250,000 and the officers are from the official staff of the bank, and, in addition, include a vice-president, R. G. Lyne, who comes from the investment department of the Equitable Trust Company of New York. The company's offices are in the bank.

Plans for \$325,000 Hotel at Ashland, Ky.

Plans are being made by Wyson & Bengtson, Charleston, W. Va., for a \$325,000 addition to the Ventura Hotel at Ashland, Ky., for the Ashland Hotel and Realty Company, as recently announced. The architects advise the MANUFACTURERS RECORD that construction bids are expected to be received about April 20. The building will be fireproof, 64 by 82 feet, 11 stories and basement, and will contain 90 rooms with bath, lobby, kitchen, public and private dining rooms, banquet hall, lounging space and other facilities.

Branch Banking "Viewed With Alarm" in California.

A California reader of the MANUFACTURERS RECORD writes: "Your comments in the MANUFACTURERS RECORD on branch banking and the premature extension of the Federal Reserve charter brings up the fact that we have a riotous increase of branch banking in California. My recollection is that a year ago the Bank of Italy had between 80 and 90 branches in California. During the last two months it has been gobbling individual banks by ones, twos, threes and bunches. It has within a few weeks absorbed banks that had established a number of branches.

"Last Thursday I came up from Fresno with a gentleman of the Bank of Italy in that city. I asked him how many branches his bank then had, and he said 278, and he believed it would soon have 300, all in California.

"San Francisco papers state that the Bank of Italy has received its charter as a national bank. It has been forecast of late that when nationalized all its branches would become national banks and members of the Federal Reserve System. As the Federal Reserve officials have been very anxious to enlarge the numbers of member banks, it may be assumed that they cordially approve of this ominous spread of branch banking by which they gather in so many members.

"The financial writers now hold that the Bank of Italy ranks second among the big ones, the deposits in which are given as follows: National City, \$905,837,000; Bank of Italy, \$575,000,000; Chase National, \$564,373,000; Guaranty Trust, \$500,740,000. And Bank of Italy stock sold at \$670 on the San Francisco Stock and Bond Exchange yesterday.

"Some men 'view with alarm' this sudden growth of branch banking in California."

Plan to Raise \$500,000 to Advertise Birmingham.

Birmingham, Ala.—Following conferences with leading business and industrial men of Birmingham, the Axis Club of this city, Mrs. W. D. Nesbitt, president, has undertaken to raise from \$300,000 to \$500,000 for advertising the advantages of Birmingham. It is stated that the Chamber of Commerce and other civic organizations will co-operate with the Axis Club in the undertaking and that all citizens of the city will be asked to share in it. Funds will be handled by the club and expended for advertising in the three Birmingham papers and in national periodicals. An organization to conduct a campaign for raising the money will be perfected within a few days, it is said, and the campaign completed within 30 days.

Orlando to Sell \$731,000 of Bonds.

Orlando, Fla.—Sealed bids will be received until March 23 by the City Council of Orlando for the purchase of \$731,000 of municipal bonds, including \$170,000 of paving bonds, series I, validated November 24, 1925; \$230,000 of paving, sewer and sidewalk bonds, series D, validated September 27, 1926, and \$331,000 of paving and sewer coupon bonds, series A, validated February 28, 1927, all to bear an interest rate of 5 per cent.

Wild Pecans Bring \$500,000.

Gonzales, Texas, March 14—[Special.]—Of a total of approximately 500 cars of pecans shipped from points in South Texas during the past season, 120 cars were from Gonzales. Nuts that went to fill these cars were gathered from wild pecan trees along the San Antonio River and other streams near here. Total proceeds from the sale of the 120 cars were approximately \$500,000.

Iron Mountain Comes Into Its Own.

APPLICATION OF MODERN DIESEL ENGINE TO OLD MINE AT IRON MOUNTAIN, MO., SOLVES THE POWER PROBLEM.

By ARTHUR S. E. CORBETT.

In turning back the pages of American history we find that few mining enterprises have the fascinating past which characterizes the colorful industrial evolution of Iron Mountain. Located in the southwest corner of St. Francois county, Missouri, about 90 miles south of St. Louis, it rose at one time to a commanding height among the St. Francois Mountains, which are in reality a part of the Ozark range, but differ from the well-known Ozarks because the formation is primarily igneous. Iron Mountain owes its name to the iron ores of which it was entirely composed. Originally the surface ore of the mountain had a high metallic content of 65 to 70 per cent. The ore is free from sulphur, is feebly magnetic and is known as specular iron or specularite (Fe_2O_3).

Iron Mountain is mentioned in the annals of history for the first time in connection with the mound builders. However, it remained for the early French pioneers to exploit the mineral wealth of the region, and as early as 1795 we learn of one Joseph Pratte, who with the assistance of a few hardy settlers from Ste. Genevieve, Mo., made an organized effort to work the deposits, confining their activi-

ties solely to surface mining. Later, owing to a scarcity of timber, the furnaces were moved to Irondale in Washington county, about 20 miles distant. In 1859 the old Iron Mountain Railroad, now the main line of the Missouri Pacific, was extended to Iron Mountain, and from then on ore began to be shipped to Carondelet and other furnaces for smelting. Up to this time all mining was confined to surface operation.

Some of the old-timers in the hills near by still point with pride to their recollection of the Civil War and the activity around Iron Mountain. The mines and blast furnaces were taken over by the Union Army, using the location as a military depot for the manufacture of cannon and cannon balls. Even after the war smelting was carried on to some extent, but after 1877 all the ore was shipped elsewhere. In the hands of capable St. Louis business men the mine continued to operate until 1892, Cleveland's Administration, and in the panic that followed succumbed in the economic upheaval along with other industries. While in operation power for the mine was generated by a steam plant consisting of simple reciprocating engines. Wood was used



IRON MOUNTAIN MINE, WITH IRON MOUNTAIN IN THE DISTANCE.

ties solely to surface mining. Prior to Pratte's venture artwork of the Indians was fashioned from the surface ores, and it is known that Pratte's attention was called to the iron deposits by these works of Indian art.

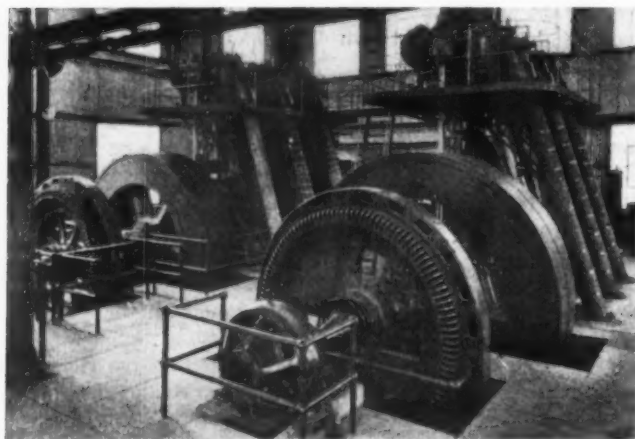
In 1836 the first company was organized to work the property, but actual operation did not commence until eight years later and only after the mine changed hands several times. At the outset the ore was hand sorted and transported to Ste. Genevieve by oxcart over a planked road, a distance of 45 miles. From here the ore was barged to furnaces at Pittsburgh. This practice continued about five years and until two blast furnaces were built at Iron Mountain. Judging from the present appearance of these furnaces, each had a capacity of 75 tons. The immediate hills surrounding the site supplied the timber for charcoal with

solely for fuel, although for a few years before the plant was closed Illinois coal was also used.

Fully appreciating the strategic point which St. Louis occupies geographically and commercially, a group of men headed by L. A. Busby of Chicago, in 1920 organized the present Iron Mountain Company and took over the property abandoned in 1892. It was necessary to rehabilitate some of the old salvaged equipment and to supplement this with second-hand equipment picked up immediately and at random. Power for the mine was again generated by a temporary makeshift steam plant of reciprocating engines, using wood for fuel. In the meantime the management was carefully making plans for the erection of permanent structures and giving serious consideration to the power problem.

The construction program was then carried out. All the

buildings are of the conventional mill design. The concentrating mill has an ultimate capacity of 1400 tons, although at present the output is approximately 1000 tons per 24 hours of operation. The equipment in the mill consists of one 24 by 36 Traylor Bull Dog and two 12 by 24 Allis-Chalmers jaw-type crushers, two 18 by 42 Traylor rolls, two 22-foot Hancock jigs, ten No. 11 Diester sand tables and one 4-foot by 16-foot Stephens-Adamson trommel. Mining consists of both surface and underground work. The surface ore is conveyed to the mill by a narrow-gauge railway, driven by a gasoline engine locomotive, and all loadings of the cars is done by steam shovel. The underground workings have a maximum depth of 400 feet and are comparatively free from



TWO 520 B. H. P. FULTON DIESEL ENGINES USED IN THE MINE.

water. The ore is brought to the surface by a double-drum, two-clutch Wellman-Seaver-Morgan geared balanced hoist, driven by a 150-horsepower General Electric motor of the mine-hoist type. The entire property is driven electrically and is equipped with General Electric equipment throughout. The entire property has a total motor-connected load of approximately 1250 horsepower, consisting in the main of large motors.

The power question was not so easily settled. There were three propositions to consider, namely, the purchase of energy from a 25,000-kilowatt steam turbine-driven central station located about 15 miles from Iron Mountain; a steam plant of either uniflow engines or steam turbines, or a

Diesel engine drive. After an intensive study and comparison of each proposition, it was finally decided to install Diesel engines. Various Diesel engine power plants were visited and inspected in an effort to determine the best engine for this strenuous service, and the contract was ultimately given to the Fulton Iron Works Company of St. Louis for two 520-B. H. P. Fulton-Diesel engines. The sturdy construction and slow speed of this type and the proximity of the engine builder's factory at St. Louis were essential factors in the selection. The Fulton Iron Works Company undertook the complete installation of the power plant, including the building, foundations and the outside equipment such as the cooling tower and fuel-oil storage tanks.

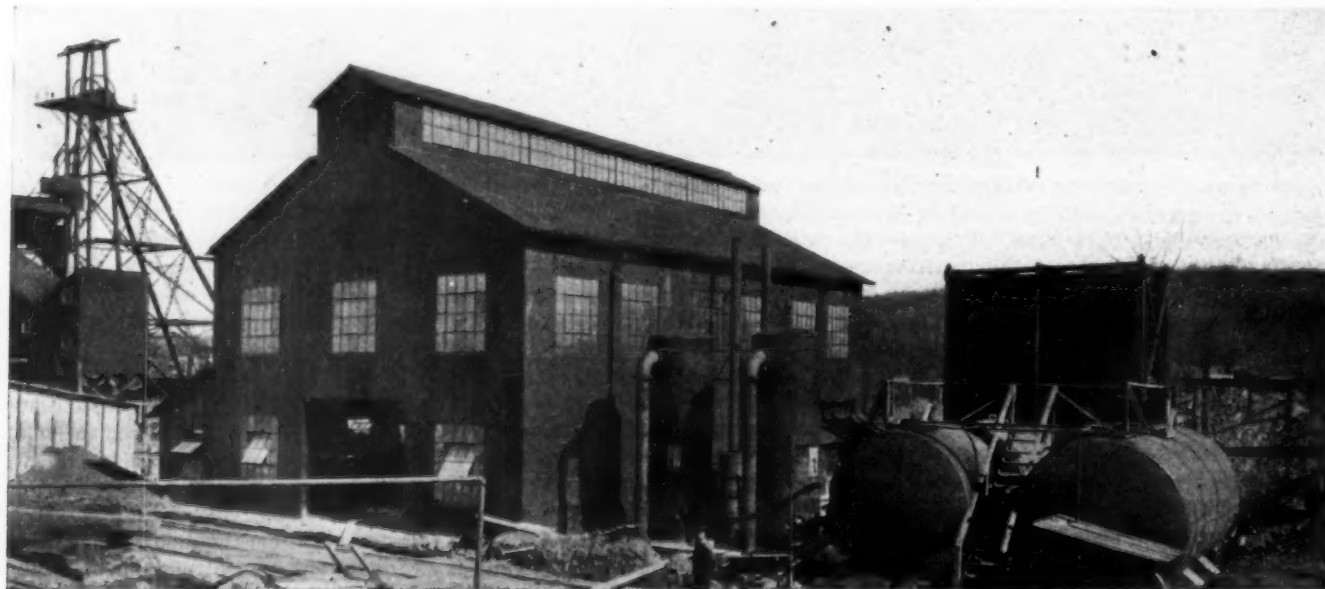
The generating equipment consists of two 520-B. H. P., three cylinder, four cycle, vertical, air injection Fulton-Diesel engines operating at 164 R. P. M., each direct connected to a 350 K. W., at .8 P. F., three-phase, 60-cycle, 440-volt General Electric alternating-current generators and exciters. The engines are of the A-frame type with trunk-type pistons, thoroughly water-cooled. One notable feature of the engines is the oversize flywheels, each weighing 87,000 pounds. These heavy flywheels absorb the high temporary and irregular overloads imposed on the engines by the mine hoist and crusher motor loads.

The operators of these engines were selected from the old steam engine force and have been so satisfactory that at this writing all of the original men are still on the job. Since the engines were placed in operation in February, 1923, the mill has not been down for one minute nor has the company lost a single dollar in production due to engine failure in service. During all this time the engines have operated 24 hours a day, seven days a week, on service which frequently imposes an overload of 33 1/3 per cent on an engine for a period of eight hours and often longer. Each Sunday one of the engines is taken out of service for about six hours for inspection and adjustment.

The power cost of the plant comprises and consists of the following items:

Operating Charges: Fuel oil, average cost 6 cents per gallon delivered in tank-car lots; lubricating oil; attendance, consists of one operator and oiler per shift of eight hours. Maintenance, maintenance labor, incidental labor in engine room; miscellaneous expense, various items not directly chargeable to maintenance; electricians, one electrician and helper.

Fixed Charges: Depreciation, based on life of 20 years of engines; interest, interest on investment at 6 per cent,



THE POWER HOUSE, FUEL TANKS AND THE COOLING TOWER.

allowing for interest earned by the depreciation reserve; insurance and taxes.

Average monthly energy production, 300,000 K. W. hours; total power cost, including items listed above, \$0.0138 per K. W. hour; general station factor, 55 per cent.

In addition to the mining load, the power plant also supplies energy to the Ironton Light and Power Company for distribution in the town of Ironton and vicinity, serving approximately 3000 people.

That Iron Mountain has been a commercial success after years of operation is due, to a large degree, to the application of the modern Diesel engine as a prime mover.

Georgia Power Company Plans \$45,000,000 Bond Issue.

Atlanta, Ga.—An issue of \$45,000,000 of 5 per cent first and refunding mortgage gold bonds has been offered by the Georgia Power Company of this city, P. S. Arkwright, president, which was recently formed by a consolidation of the Georgia Railway and Power Company and other Georgia companies. As previously detailed in the MANUFACTURERS RECORD, the Georgia Power Company supplies electric light and power, directly or indirectly, in practically all of Northern and Central Georgia, embracing approximately 135 municipalities, including Atlanta, Rome and Athens.

This financing, it is stated, will result in the retirement of more than \$25,000,000 of bonds of predecessor companies, the majority of which bear interest rates at 6 or 7 per cent, and the reimbursement of expenditures incurred for construction and for other corporate purposes. Following its funded debt, the company will have outstanding upon completion of this financing approximately 285,445 shares of \$6 preferred stock, 450,000 shares of \$6 second preferred stock and 2,000,000 shares of common stock of no par value.

Properties of the Georgia Power Company include 15 hydro-electric generating plants, with an installed capacity of over 330,000 horsepower; 4 steam-generating plants of over 30,000 horsepower capacity, more than 1500 circuit miles of high-tension transmission and primary distribution lines and street railway properties. Owned or leased gas plants have a daily capacity of 8,900,000 cubic feet, while water-storage reservoirs have an aggregate capacity of 7,500,000,000 cubic feet.

Norfolk and Washington Financial Firms Merge.

According to an announcement by Stein Bros. & Boyce of Baltimore, fiscal agents, a merger has been effected between the Mortgage Security Corporation of America, with its home office in Norfolk, and the Mortgage Bond and Guaranty Corporation of Washington, D. C. The consolidated company will retain the name of the Norfolk company, it is said, directors of the two companies having voted unanimously for the merger, which is expected to be ratified by the stockholders.

It is stated that a consolidated balance sheet of the two companies lists the combined resources at more than \$39,000,000, capital and surplus at more than \$4,000,000 and reserves at more than \$900,000.

Petersburg to Issue \$350,000 of Bonds.

Petersburg, Va.—For the purpose of carrying out a program of public improvements, City Council of Petersburg plans to issue bonds in an amount not exceeding \$350,000. Funds from the sale of the bonds will be used for street improvements, sewer and water mains, police and fire-alarm systems and to pay for the Exchange Building, which the city recently purchased for police headquarters and the Department of Public Safety.

How Cheap Can Cotton Be Grown?

The Commercial Appeal of Memphis, Tenn., had a recent issue containing some interesting statements in regard to how cheaply cotton can be raised under intense fertilization and cultivation in Louisiana, Arkansas and Mississippi. In the course of this statement on the subject it gives the following remarkable facts as to cotton yields and the cost of production:

"Elstner Beall of Wilson, Mississippi county, Arkansas, is the world's champion cotton grower among students of vocational agriculture based on a three-acre area. This farm boy has twice been champion in the cotton-growing contest sponsored by the State Department of Vocational Agricultural Education, and in the three years he has participated has each time been a winner.

"Elstner is 17 years old and a freshman in high school. His record in 1924 was 852 pounds of lint cotton per acre on three acres, grown at a cost of eight cents per pound. In 1925 his record was 1008 pounds of lint cotton per acre on three acres, produced at a cost of six and one-half cents per pound. In 1926 his production was 740 pounds lint cotton per acre, based on the three acres, and his cost of production was nine cents per pound, being just exactly half as much as the average cost per pound for the State during the year.

"I attribute my success to good land, good seed, proper preparation of the seed bed, proper fertilization, proper spacing and cultivation, a lot of hard work and a good teacher in agriculture," said Beall.

"Farmers of Mississippi and four other cotton States who last year operated on a plan of liberal fertilization and intensive cultivation found such a system profitable in cotton growing. They increased their yield per acre without substantially increasing the cost per acre, thereby making the cost of producing per bale considerably lower. This is according to Harvie Jordan, director of the American Cotton Association and Industrial Boll Weevil Control Campaign.

"He says that the acreage production on several hundred two-acre demonstration farms intensively cultivated in Mississippi, Alabama, Georgia, South and North Carolina was 498 pounds of lint cotton to the acre.

"J. G. Barton, Slate Springs, Miss., obtained a yield of 1575 pounds on his two acres; T. H. Jennette, Lake Landing, N. C., 1898 pounds; Ed Smith, Ridge Springs, S. C., 1654 pounds; W. H. Hubbard, Forsyth, Ga., 1901 pounds; C. H. Green, Wedhakee, Ala., 2100 pounds. The average of these five demonstrations was 913 pounds to the acre, and the average return for lint and seed was \$140.64 an acre, with the cost of production averaging \$59.98 an acre, making the net profit \$80.66. The average amount of fertilizer used was 600 pounds an acre.

"On the several hundred demonstration farms in the five States the net profit per acre was \$32.28, after deducting the average cost, \$41.21 an acre, from the proceeds from seed and lint. Barrett says that these results were obtained by everyday farmers. A liberal amount of fertilizer was used at planting time, and around June 1 about one hundred pounds of sulphate of ammonia was applied to each acre. Their yield of 498 pounds an acre may be compared with the cotton belt average of 187 pounds. The latter cotton cost about 20 cents a pound to produce, while the higher yield cost only eight and one-half cents a pound.

"The demonstrations," says Barrett, "show the difference between profit and loss. It is quite clear that the future cotton-growing industry, especially in the old cotton States east of the Mississippi River, depends upon increasing the lint yield per acre and thereby decreasing the cost of production."

"The party of champion cotton growers which Representative James P. Aswell of Louisiana had recognized from the floor of the House of Representatives in Washington included the following:

"Guy Harrell, Brownsville, Tenn., 1926 State champion, who grew 4180 pounds of lint cotton on five acres at a cost of four cents per pound, not including rent of land and ginning.

"J. M. Fulgham, Utica, Miss., winner of second prize in his State, substituting for R. L. Matthews, Belzoni, Miss., champion, who is ill. Mr. Fulgham grew 11,493 pounds of seed cotton on three acres."

Reforestation in North Carolina.

By PAUL KELLY, Department of Conservation and Development, Raleigh.

Not only is the State of North Carolina directing its energies toward protecting its standing timber from devastating fires, but a far-seeing policy toward reforestation has been adopted and is being diligently pursued. Its forest service, among the oldest in the South and one of the most active in the country, is alive to the situation that must be faced in the future with the rapid depletion of its forest reserves. That some steps to provide the necessary products from forests must be taken is fully realized and a program which is destined to meet such a situation is under way.

First, the foresters realize that there must be adequate protection for the forests that are standing, and, second, something must be done to insure a future crop of timber. To meet the second demand a special division of the State Forest Service has been created and placed under the supervision of a capable and efficient assistant State forester.

A recent survey has shown that close to 4,000,000 acres in the State are lying idle because they are not needed for agriculture and are primarily forest land. These idle lands constitute a double draw on their owners, for, in addition to the fact that they produce no revenue for taxation, parts of them are subject to serious loss of fertility by gullying in heavy rains. Growing forests, the foresters point out, not only would increase the value through providing a future source of revenue, but also would become an asset to the State and community in many other ways appreciated by the public. It is toward the reforestation of these 4,000,000 acres that the energies of the nursery division of the State Forest Service are being directed. A careful survey and study has been made and the program which has already been launched has resulted.

Chief among the causes assigned to the denuding of these large areas, which exist in most of the other States as well, is that arch enemy of growing trees and vegetation, fire. This

factor, following ordinary methods of logging, has created the present problem. To reclaim most of this large unproductive area the planting of forest-tree seedlings or seed must be undertaken. However, the practice of planting is not advocated, except in cases where there is no prospect for another natural growth. Where there is young growth, extreme precautions for its protection from fire are advocated to prevent its despoliation. Planting as a successful means of reforestation has proven successful in many European countries and in some parts of the United States where it has been employed to supplement natural reproduction or to reclaim areas denuded by fire or shifting sands.

Many factors are awakening North Carolinians to the desirability of reforesting its waste areas; some of these are the rising cost of lumber, the enhanced value of tracts on which timber is growing, needs of shelter-belts and windbreaks and the advantages of making idle lands productive. Tree planting as a possibility for profit is being considered by farmers and lumbermen, while municipalities are seeking reliable supplies of nursery-grown seedlings for planting on their watersheds in order to protect and regulate their water supplies.

Following its policy of encouraging and aiding in reclaiming forest lands, the State Forest Service, in co-operation with the Federal Government, maintains a forest nursery at Raleigh. Seedlings are furnished to farmers at approximately the cost of production, together with directions for planting and advice in the selection and care of the plants.

This year the first crop of seedlings, consisting of some 70,000 plants, is available and are now being distributed. Already many have been sent out and are being planted. Next year the nursery will supply around 400,000 of these seedlings, while provisions have been made to increase the capacity as the demands grow larger. The nursery will be confined



Photo by U. S. Forest Service.

PLANTED WHITE PINE, EIGHT YEARS OLD, IN MACON COUNTY, NORTH CAROLINA.

primarily to the growth of conifers, with the main emphasis on the commercial pines. Hardwoods, such as oaks, hickories, walnuts and poplars, are not so difficult to grow as the conifers, and may be planted to advantage on the area to be



SUCH LANDS AS THIS, IDLE AND UNPRODUCTIVE, ARE THE TYPE THE STATE FOREST SERVICE WANTS TO HAVE RECLAIMED FOR FORESTS.

reforested by direct sowing of the seed if mice and squirrels are not too active.

Further assistance and advice is furnished by the State in the publication of a bulletin advising prospective planters as to the suitability of certain sections and types of lands to particular trees. For instance, the use of seedlings of the same variety as the trees which formerly stood in the vicinity is advocated, provided there have been no factors in the meantime which would alter the situation.

Allowing for fluctuations in labor conditions and other factors, the foresters estimate that the cost of planting an



SEEDLINGS SET 30 YEARS AGO IN BILTMORE NATIONAL FOREST, NEAR ASHEVILLE. PRESENT ESTIMATED VALUE OF THIS TIMBER, \$100 AN ACRE.

acre to the seedlings should not average higher than \$13. Particular emphasis is laid on the importance of protecting the plants from fire, which is more destructive of small than of larger growth. Outside of defense from fire, little care is required until between the age of 15 or 20 years, when, if most of the plants have survived, thinning should be undertaken to free the most virile trees from competition. Special attention necessary in the planting of hardwood seed is described by the service, both as to the manner of sowing and the care and protection of the plants thereafter.

Counting from 30 to 50 years necessary for the maturity of the trees, anticipated crops of lumber form a very productive investment, especially considering that there will be

negligible cost after the trees reach a certain age and that the land on which they are grown is otherwise unproductive. The State has already given a demonstration of planting in Mt. Mitchell State Park, where several thousands of the seedlings are flourishing and which give promise of fulfilling all expectations.

Does it pay financially to reforest these areas? Here is the answer:

It is reasonable to assume that an acre of land of average quality planted to pine should yield between 15,000 and 20,000 board feet at 40 years and between 20,000 and 25,000 feet at 50 years. At existing rates for stumpage, between \$4 and \$6 a thousand board feet, the yield at the end of 40 years, taking the minimum figure, will be \$60 per acre and \$80 at the maximum, making no allowance for a steady increase in the value of timber. At 50 years the income from the acre would be \$80 at the minimum and \$100 at the maximum average.

If the goal of the Forest Service is reached, a potential wealth of between \$240,000,000 and \$400,000,000 can be created, besides many other benefits that will be derived therefrom. The service has not only set the goal, but is working actively toward its accomplishment. Its slogan is: "An idle acre is a liability. Plant it to timber and make it an asset!"

\$1,000,000 Residence for Palm Beach.

Construction has begun on a residence on South Ocean Boulevard, Palm Beach, Fla., for James P. Donahue of New York at a reported cost of \$1,000,000, according to a telegram to the MANUFACTURERS RECORD from Gerry Swineheart, publicity director of the Chamber of Commerce of West Palm Beach. Watt & Sinclair of New York, who have an office at Palm Beach, are handling the general contract and expect to complete the building for next season. Marion Sims Wyeth of New York and Palm Beach is the architect.

The residence will be two stories and basement, with a third story over the owner's suite, to contain 20 or 22 rooms in the master wing and approximately 40 rooms for servants, kitchens and other facilities. Construction will be of tile and reinforced concrete, work being done on the cost-plus basis.

Acquires Utilities in West Virginia.

Salem, W. Va.—Electric light and power properties in Salem and West Union, water and ice properties in Kingwood and water properties in Philippi and Buckhannon, all in West Virginia, have been acquired by the Mountain State Utilities Corporation, which has incorporated under the laws of West Virginia and is a subsidiary of the Allied Utilities Corporation of Washington, D. C., of which Francis R. Weller is president. In order to provide in part for the payment of these properties the latter company is offering \$300,000 of first lien and refunding 6 per cent bonds through Boenning & Co. and Parsley Bros. & Co., Philadelphia. E. G. Parsley of the latter company has been elected a director of the Allied Utilities Corporation.

Plan \$400,000 Church at West Palm Beach.

West Palm Beach, Fla.—Plans are being formulated by the congregation of the First Presbyterian Church of this city, of which the Rev. Joseph Britan is pastor, for launching a campaign for funds with which to erect a new \$400,000 building on the west side of Lake Worth. A site for the new structure has been donated by Mr. and Mrs. W. A. Smith, members of the congregation, and it is announced that Mr. and Mrs. H. A. Weatherby will give the chimes. Tentative plans for the building have been submitted by Philip Hiss of Hiss & Weekes, architects, of New York city.

CENSUS COTTON-GOODS MANUFACTURE, 1925.

Over One-Half of the Country's Output Comes From the South.

The Department of Commerce announces that, according to data collected at the biennial census of manufactures taken in 1926, the establishments whose principal products were cotton goods reported for 1925 a total output valued at \$1,714,367,787. This amount represents a decrease of 9.8 per cent, as compared with \$1,901,125,703 for 1923, but exceeds the corresponding total for 1921, \$1,278,220,831, by 34.1 per cent.

The total for 1925 is made up as follows: Woven goods, over 12 inches in width, 7,773,468,028 square yards, valued at \$1,245,139,031; cotton yarns for sale, 626,356,804 pounds, \$313,060,245; cotton thread, 37,585,368 pounds, \$59,875,776; cotton waste for sale, 417,094,448 pounds, \$40,622,879; other products, \$55,669,856. The leading items entering into the total for woven goods were the following: Sheetings, 1,638,168,738 square yards, valued at \$180,357,058; print cloth, 1,153,813,770 square yards, \$97,262,908; twills and sateens, 532,830,805 square yards, \$84,133,051; cord fabrics for tires, \$176,964,466 square yards, \$80,478,625; ginghams, 356,475,999 square yards, \$57,591,279; shirtings, not silk-striped nor rayon-striped, 372,106,936 square yards, \$56,534,114; cotton flannel (canton flannel, flannelettes and blanketings), 375,415,819 square yards, \$53,606,741; cloth composed of cotton and silk or other vegetable fiber and silk (except silk-striped shirtings), 177,106,868 square yards, \$51,671,221; denims, 180,491,656 square yards, \$46,092,096; lawns, nainsooks, cambrics and similar muslins, 324,087,427 square yards, \$43,323,433.

The cotton-goods industry embraces mills engaged primarily in any of the processes preparatory to spinning, in spinning or in the weaving of piece goods. (Manufactures of cotton knit goods are not included, being classified in the "Knit-Goods" industry.)

Of the 1366 establishments reporting for 1925, 364 were located in North Carolina, 178 in Massachusetts, 162 in South Carolina, 134 in Georgia, 115 in Pennsylvania, 75 in Rhode Island, 68 in Alabama, 43 in New York, 42 in Connecticut, 27 in New Jersey, 24 in Texas, 20 in Tennessee, 17 in New Hampshire, 16 in Maine, 14 in Illinois, 11 in Mississippi, 10 in Virginia, 8 in Maryland, 6 in Ohio, 6 in Wisconsin, 5 in Kentucky and the remaining 21 in nine other States. In 1923 the industry was represented by 1375 establishments, the decrease to 1366 in 1925 being the net result of a gain of 134 establishments and a loss of 143. The loss is accounted for as follows: Out of business, 74; idle, 41; reported commodities other

than cotton goods as products of greatest value and, therefore, transferred to the appropriate industries, 28.

Approximately 800 of the 1366 cotton-manufacturing establishments in the country are located in the South, and the value of the cotton-goods output of the South in 1925 was estimated at more than \$900,000,000, or over 50 per cent of the aggregate value of all the cotton goods manufactured in the United States that year. Detailed figures by States have not been issued for 1925, but in 1923 the South produced over 52 per cent of the total value of the country's cotton goods and made nearly 58 per cent of all the cotton-woven goods 12 inches wide and over.

The statistics for 1925 as presented herewith are preliminary and subject to such correction as may be found necessary upon further examination of the returns.

SUMMARY FOR THE INDUSTRY FOR THE UNITED STATES

	1925	1923
Number of establishments.....	1,366	1,375
Wage earners (average number)...	445,184	471,503
Maximum month.....	Dec. 457,860	Apr. 488,303
Minimum month.....	Aug. 426,015	Aug. 455,469
Per cent of maximum.....	93.0	93.3
Wages.....	\$353,882,870	\$396,602,644
Cost of materials (including fuel, electric power and containers)*	\$1,077,152,614	\$1,147,372,215
Value of products*.....	\$1,714,367,787	\$1,901,125,703
Value added by manufacture.....	\$637,215,173	\$753,753,488
Horsepower.....	2,235,585	2,153,299

*The amount of manufacturers' profits cannot be calculated from the census figures for the reasons that no data are collected in regard to a number of items of expense, such as interest on investment, rent, depreciation, taxes, insurance and advertising.

Increased Motor-Tourist Travel to Florida.

Although motor tourists into Central and South Florida dropped somewhat in January compared with January, 1926, there was an increase in February compared with February, 1926. The record of tourist cars and passengers southbound over the Jacksonville-St. John's River Bridge, at Jacksonville, for February showed that 6349 automobiles carried 23,411 passengers into the State through this one highway gateway. The number of cars in February, 1926, were 5719, which carried 22,676 passengers.

Buy Controlling Interest in Birmingham Bank.

Birmingham, Ala.—Controlling interest in the Traders' National Bank of this city has been purchased for \$750,000 by Ward, Sterne & Co., Birmingham, and associates, according to an announcement by George B. Ward of the purchasing corporation. The purchase was made from John H. Frye, John G. Farley and associates, who conveyed more than 2000 shares of 2500 shares outstanding. It is understood that details will be arranged at once to increase the capital stock of the institution and to expand its facilities.

COTTON GOODS SUMMARY FOR LEADING STATES

	Establishments				Wage earners				Products			
	Number	Per cent of total	1925	1923	Number	Per cent of total	1925	1923	Value	1925	1923	Per cent of total
United States.....	1,366	1,375	100.0	100.0	445,000	472,000	100.0	100.0	\$1,714,368,000	\$1,901,126,000	100.0	100.0
*Cotton-growing States.....	809	768	59.2	55.8	247,000	239,000	55.5	50.7	929,107,000	978,288,000	1.9	1.8
†New England States.....	332	357	24.3	26.0	165,000	196,000	37.0	41.5	607,925,000	720,472,000	54.2	51.5
‡All other States.....	225	250	16.5	18.2	33,000	37,000	7.5	7.8	177,336,000	202,371,000	35.5	37.9
§Cotton-growing States:												
North Carolina.....	364	351	26.6	25.5	84,000	81,000	18.9	17.2	316,069,000	326,572,000	10.3	10.6
South Carolina.....	162	152	11.9	11.1	66,000	62,000	14.9	13.3	230,665,000	243,489,000	18.4	17.2
Georgia.....	134	129	9.8	9.4	49,000	47,000	10.9	10.1	193,424,000	201,880,000	13.5	12.8
Alabama.....	68	61	5.0	4.4	22,000	20,000	4.9	4.3	85,983,000	86,385,000	11.3	10.6
Virginia.....	10	8	0.7	0.6	8,000	8,000	1.8	1.7	30,295,000	35,876,000	5.0	4.5
†New England States:												
Massachusetts.....	178	191	13.0	13.9	96,000	114,000	21.6	24.1	345,864,000	415,923,000	1.8	1.9
Rhode Island.....	75	81	5.5	5.9	29,000	34,000	6.6	7.2	107,708,000	126,701,000	20.2	21.9
New Hampshire.....	17	17	1.2	1.2	15,000	19,000	3.3	3.9	57,869,000	66,166,000	6.3	6.7
Connecticut.....	42	48	3.1	3.5	12,000	15,000	2.7	3.2	52,100,000	61,067,000	3.4	3.5
Maine.....	16	16	1.2	1.2	12,000	14,000	2.7	2.9	41,188,000	46,702,000	3.0	3.2
‡All other States:												
Pennsylvania.....	115	127	8.4	9.2	12,000	13,000	2.6	2.7	79,116,000	91,686,000	2.4	2.5
New York.....	43	49	3.1	3.6	8,000	9,000	1.8	2.0	39,332,000	44,927,000	4.6	4.8
New Jersey.....	27	26	2.0	1.9	8,000	9,000	1.9	1.9	31,920,000	34,755,000	2.3	2.4

*Alabama, Arkansas, California, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia.

†Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont.

‡Delaware, Illinois, Indiana, Maryland, Michigan, New Jersey, New York, Ohio, Pennsylvania and Wisconsin.

§Principal States, ranked according to value of products.

BIG YEAR FOR UNITED STATES STEEL. Gross Sales and Earnings in 1926 More Than \$1,508,000,000—Judge Gary's Business

Comments.

The total value of business transacted by all companies of the United States Steel Corporation during the year 1926, as represented by their combined gross sales and earnings, equaled the sum of \$1,508,076,090, as compared with a total of \$1,406,505,195 in the year 1925, which shows an increase of more than \$101,500,000, according to the annual report just issued. Judge Elbert H. Gary, chairman of the board of directors, says concerning the operations for the year:

"The very favorable conditions which prevailed in the steel industry in the opening quarter of 1926, mentioned in last year's annual report, were not wholly maintained during the entire year. The volume was, however, of sufficient proportions of total capacity to permit of economical operations and to produce generally satisfactory results for the year. In the first quarter the operations of the subsidiary companies, as reflected by their total tonnage output of rolled and finished products for sale, was 94 per cent of capacity, while for the entire year the average was 88 per cent, compared with 78.4 per cent in 1925. As shown in the detailed table of production statistics of the several principal departments for 1926, the increase in output compared with 1925 fluctuated widely in respect of the different classes of finished products for sale, very large increases being shown for rails, track fittings and car wheels, tubing and pipe, sheets and tin plate and finished structural work, while in the other classes of output the increases were relatively small or nominal.

"There were built during 1926 at the car plants of the subsidiary companies 4040 railroad freight cars and 1969 mine and industrial cars. At the shipbuilding plants two ocean and coastwise steamers, three lighters and 100 barges and car floats were completed and delivered. In addition, a very considerable quantity of repair and overhauling work, including the production of equipment and ship parts, and other machine and fabricating shop work was handled by the car and shipbuilding plants.

"Prices received in 1926 were fairly stable throughout the year, with, however, a downward tendency. The average prices received for the total tonnages of rolled and other finished products shipped netted on the domestic shipments \$1.12 per ton less than the average received per ton for an equal tonnage of similar products, respectively, shipped in 1925; and as to export shipments the per ton price netted \$2.82 less than the average secured in the preceding year. The average price received for domestic and export tonnage combined was \$1.28 per ton less than in 1925. The export business in point of tonnage showed a substantial increase over 1925 and was the largest in any year since 1920.

"Prices obtainable in the foreign markets, and to some extent for domestic tonnage in markets bordering on the Atlantic, Gulf and Pacific coasts of the United States, were, however, relatively low, owing to the severe competition of European manufacturers, whose labor cost in production and transportation cost in delivery were materially less than that of the mills in the United States. As a consequence, the direct profit results from the export business as a whole were not fully compensatory for the proportion of capital invested and employed in the business, but this was to a considerable extent offset by the reduced average cost of operation in producing and supplying domestic tonnage by reason of the increased volume and continuity of employment afforded the mills through the export business, which in 1926 equaled 9.28 per cent of the total tonnage of rolled and finished steel products shipped.

"In continuation of the policy of the Corporation, adhered

to from its organization, liberal outlays were made during the year for additions, extensions and improvements, largely in order to replace old, obsolete and high-cost plants and units; to establish equipment and facilities at modern and efficient standards to insure economical operation and utilize what have been waste residues, in some directions to expand lines of products and in others to meet the growing demands of the trade. Facilities for increasing the total production of steel have not, however, been a leading feature of this program, as evidenced by the comparative ingot capacity, which on December 31, 1926, was 23,176,900 tons per annum, compared with 22,749,100 tons at the close of 1925, an increase of only 1.8 per cent."

The total earnings of the Corporation, according to the income account for the year 1926, were \$207,345,153.18, after deducting all expenses incident to operations, including ordinary repairs and maintenance, allowance for employees' profit-sharing fund and taxes. After deducting interest on outstanding bonds and mortgages of the subsidiary companies there was left a balance of earnings for the year 1926 amounting to \$199,058,868.91, and from this latter was taken for depletion and depreciation over \$64,220,000, leaving net income for the year \$134,837,957.59. After paying interest on bonds and dividends on stock, etc., there was left a balance of \$25,866,552.89 carried to undivided surplus, the aggregate of which now is \$553,502,399.59.

\$1,100,000 Loan on Florida Properties Negotiated.

Evidence of a better feeling toward Florida first mortgages is indicated in the announcement last week of a \$1,100,000 12-year first mortgage underwriting on the Stovall properties in Tampa. These properties are owned by Col. W. F. Stovall, former owner of the Tampa Tribune, and include three modern office buildings in the central district of Tampa. The loan was negotiated by Robert W. Peery and Hugh F. Dickson (Peery & Co., Inc.) of New York city.

Contract for \$275,000 School at Amarillo.

Amarillo, Texas.—General contract has been awarded by the Board of Education, George Wadill, secretary, to the Windsor Construction Company, Amarillo, for the erection of a high-school building to cost about \$275,000, including \$50,000 for furnishings and equipment. The structure will be 200 by 208 feet, fireproof, of stone, brick and concrete, with concrete foundation, terrazzo, tile and wood floors and Barrett roof. E. F. Rittenberry of Amarillo is the architect and W. G. McKintoch superintendent of schools.

\$1,250,000 Hotel for Columbia, S. C.

Announcement has been made at Columbia, S. C., that C. Gadsden Sayre, architect, of Greensboro, N. C., and associates plan the construction of a 240-room, 12-story hotel at Columbia at a cost of \$1,250,000. Mr. Sayre advises the MANUFACTURERS RECORD that it is hoped to reach a definite decision on the project within a short time. It is understood that a company will be incorporated to direct the enterprise.

\$100,000 Fund to Advertise Chattanooga.

Chattanooga, Tenn.—A sum of \$100,000 will be used this year by the Chattanooga Community Advertising Association for advertising the city instead of \$50,000, which was expended last year, according to an announcement by Walter Johnson, president of the Association. A special committee has been appointed to raise the money, including Mark Wilson, chairman; John Lovel and Harry Miller.

NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore, we often publish letters with which we do not agree.—Editor Manufacturers Record.]

Thinks a New Gold Supply May Revivify the World.

JUDGE CHARLES E. CHIDSEY, Pascagoula, Miss.

The recent announcement in the Associated Press of the finding of gold in Nevada is the most important piece of news that has appeared in the daily papers for years.

Some readers of the MANUFACTURERS RECORD can remember, perhaps, how in 1920, in a letter to the MANUFACTURERS RECORD, in a review of the production of gold, I made some comparisons between the production and the demand for gold, and pointed out that the condition of the world was the same as in 1849 at the time of the discovery of gold in California and a few months later, February 12, 1850, in Australia, and that this had, as it were, put new blood in the veins of commerce and resuscitated the world and saved it from universal ruin. "The world is sick. It is starving for gold, and it must have gold. One of three things must happen; The discovery of a fresh gold field, or the remonetizing of silver, or there will come a crash that will paralyze the world. Europe will go down into bankruptcy, dragging the United States with it—and then?"

If the reports today prove true, and I can see no cause to doubt them, financiers and statesmen may smile and take another cigar, for many of the problems that now vex and terrify the world will disappear as a mist before the morning sun and we can look for a long period of prosperity and happiness.

One Reason Why Criminality Prevails.

W. F. COLLINS, the Delbridge Company, St. Louis, Mo.

I am delighted to see your front-cover-page editorial on the crime situation, also the article by Mr. Prentiss on the same subject.

I have been connected with Mr. Delbridge for over thirty years and am fully satisfied that he is right when he says the courts of our country as a whole are and always have been operated with but one idea in view, and that is to bring "profitable grist to the courthouse mill." He says that any town, city, State or nation can stop crime instantly at no trouble and no expense whenever they wish to do so, but the courthouse gangs, lawyers and other beneficiaries have never allowed this to be done for the simple reason that the criminal is the goose that lays the golden egg for them.

Better Farm Life Conditions Needed.

C. W. STEWART, Secretary, Lake City and Columbia County Chamber of Commerce, Lake City, Fla.

We wish to express our thanks to you for the splendid editorial on the cover page of the MANUFACTURERS RECORD of January 13 and for the foresight which you have shown in sounding the keynote of the South's greatest needs, especially in the State of Florida.

At the recent agricultural conference held in Miami, which the writer attended, the question was asked as to how many students in the Florida State University were taking agriculture, and the amazing fact was developed that a large portion of the student body were studying chemistry instead of agriculture.

We believe the young men and women of the South would become more interested in agriculture and more satisfied to

remain on the farms if farm life were more attractive. One has but to ride through the average farming community of the South to realize what a dreary prospect lies ahead of the young man in most communities, so far as social life is concerned. Especially is this true if the young couple comes from the North, where farming operations are carried on under better living conditions; and until the average landowner in the South realizes the value of painted buildings, well-kept lawns and, above all else, of a modern, well-equipped bathroom, it will be hard to interest and keep young men and women on the farm.

We hope you will continue editorials of this type, and keep pounding away at the idea of the South being the young man's country, which it certainly is, for the young men who realize what a great future the South has for them will be our future industrial kings.

A Tribute to a Great Geologist.

C. B. VERNER, President, the Merchants Bank and Trust Company, Tuscaloosa, Ala.

The article in your issue of January 13, carrying a picture of Dr. Eugene A. Smith, State Geologist, and written by Dr. George I. Adams, is a deserving tribute to our first citizen. Alabama is very appreciative of the work done by Dr. Smith and takes a just pride in her son, who has reflected so much credit on his native State. This recognition is shown in a most lasting and unusual way. Section 2241 of the Alabama Code of 1907 and Section 1033 of the Code of 1923 are as follows:

"Eugene A. Smith, professor of mineralogy and geology of the University of Alabama, is State Geologist."

What greater tribute could any State pay its citizen than to name him for an office without limitation by the ipse dixit of the legislative body?

Another high honor was paid Dr. Smith by the Alabama Legislature in 1923. Economy was the slogan both of the statesman and the howler, and the constant effort was to reduce salaries and expenses, yet under these conditions a bill was passed without a dissenting vote in either house of the legislature making a substantial raise in Dr. Smith's salary.

Dr. Smith is the most beloved man in Alabama.

In Behalf of Vinton, La.

PHIL J. REILLY, Lake Charles, La.

In the neighboring town of Vinton, in Calcasieu parish, the Rotary Club is serving the purpose of a Chamber of Commerce, and in my capacity as publicity director of the club I am doing what I can to help.

Vinton is a live town. It is surrounded by producing oil fields, has fine facilities in the way of railroads, has good highways and is constructing a canal which will make it possible to connect with deep water at Port Lake Charles. The town is on the Old Spanish Trail, has a fine school and churches. The agricultural development includes cattle raising, the growing of rice and other farm products. Vinton, in brief, is a good place to locate.

The Orange Products Company, Orange, Texas, has awarded contract to T. A. Howell, Orange, for the erection of a canning plant to cost \$15,000 for the building and \$45,000 for equipment.

THE IRON AND STEEL SITUATION

Steel Production Stands Up Well.

Pittsburgh, March 14—[Special.]—Steel production in February ran a trifle above the range estimated in last report, being 3,725,577 tons, computed to represent 86.45 per cent of capacity. The rate since March 1 has been fully 90 per cent, and the month will probably average somewhat above that or in the neighborhood of the 92.58 per cent shown for last March.

Increased production in the first three months of a year is seasonal, as indicated by the uniform experience of several years past, but the recent increase has been well in excess of that of a year ago; for November and December production was 10 per cent under that of a year previous, while January and February production was only 5 per cent under that of a year previous, and this month may not be at all under that of last March.

The Steel Corporation's unfilled tonnage statement for February showed 203,058 tons decrease in unexecuted obligations during the month, against 160,792 tons decrease in January. The difference is represented in increased shipments, bookings being at approximately the same rate in the two months, about 73 per cent of capacity, while shipments were about 85 per cent of capacity in January and 89 per cent in February. This month's shipments will run well above 90 per cent. The unfilled tonnage decrease is largely, but not wholly, accounted for by the two items of rails and tinplates, in which shipments were heavy, while bookings were small, as the business had been done before the close of the old year. The rest of the loss may be in shipments against quarterly contracts, usually made in the last month of a quarter.

The greatest increase in steel buying has been by the automobile trade, which had been buying at a particularly low rate. That trade's purchases this month and next may be up to those of the same months a year ago, which would leave the trade behind last year by the lightness of operation in January and February.

The agricultural-implement industry is buying steel somewhat more freely than two or three months ago, but as a matter of fact it has been running well since November, the backset received about October 1 proving of short duration.

Fabricated structural-steel lettings reported last week were only 15,000 tons, but with 70,000 tons the preceding week the average of the two weeks is high, and the total since January 1 represents a slightly higher rate than prevailed in 1926 or 1925.

About 1500 freight cars were bought last week, in small lots, bringing the total buying since January 1 up to between 24,000 and 25,000 cars, or well above the average rate in either of the past two years.

Finished steel prices have now been perfectly steady for three weeks after quite a period of small losses. Sheets and strips are somewhat firmer. The average of sheet sales is just a trifle higher than a fortnight ago, while several mills have announced advances of \$2 a ton on blue annealed, black and galvanized sheets, to apply to second-quarter contracts. Strip mills have been quoting higher prices for three weeks. In bars, shapes and plates mills continue to endeavor to secure higher prices for small lots to protect the large lot prices.

Latest views are that the coming coal strike will be somewhat less strenuous than was expected a few weeks ago, but even at that a long and moderately broad strike is expected. The view that the United Mine Workers will suffer a decisive defeat eventually has been growing more prevalent.

Connellsville furnace coke continues dull, with prices no

higher for spot and no negotiations for second quarter. Spot foundry coke has been in fair and increasing demand and the market has worked its way up 25 cents to a range of \$4.50 to \$5 for ordinary standard brands. There has been some stocking against the possibility of strikes in the coke region.

The Valley pig-iron market is stronger. Bessemer iron, on actual sales, is up 50 cents, to \$19.50. Basic has sold in two round lots at \$18, the old quotation, and it is now claimed furnaces will obtain \$18.50 on their next sales, but no inquiry seems likely to come out soon. Also, it is claimed that furnaces will soon advance on foundry iron from \$18.50 to \$19. The Cleveland pig-iron market has just had its second 50-cent advance.

Steel and Iron Show Stability.

Birmingham, Ala., March 14—[Special.]—Hand-to-mouth or small-lot purchasing has predominated in the Alabama pig-iron market for the past few weeks, and with deliveries stipulated in the near future has had the effect of rushing movements somewhat. The production of iron has been maintained steadily, the make during the first two months exceeding that of the same period the previous year, and for the first 10 days of this month the records show steady pace, probably in excess of the 10 days of same month last year. A buying movement has been declared imminent for the past week to 10 days, but even the larger melters appear to be confident that they will be able to get iron when and as they need it.

The quotation base is somewhat improved; the small-lot business, termed spot orders, command \$19 per ton, No. 2 foundry, and the regular purchasing is on the base of \$18. While the greater amount of buying is in small lots, it is estimated that the average will go over the \$18 base. Survey again shows that there will be need for a large amount of iron during the second quarter.

The steady melters of foundry iron are the cast-iron pressure-pipe manufacturers, and their lettings recently received have been in quantity and the early approach of spring means further business. The soil-pipe manufacturers are not as happily situated as to business, but are using more or less iron. Foundries and machine shops are looking forward to activity and second quarter prospects are bright.

In the buying movement that is imminent there will be no trouble in meeting any and all demands. Two blast furnaces are practically ready now for operation and within a few weeks a new ironmaker will be almost in shape to start in making iron. The surplus stock has been reduced, and if the reduction continues only a few weeks longer there will be no iron at all on furnace yards.

The steel market is showing some improvement. Structural-steel fabricators report new business in hand and more in sight. The tank manufacturers had a little lagging spell, but there is improvement in this line also to be observed. Sheet steel workers announce a little more business and wire and nail are moving. The demand for the various products shows steadiness. The Birmingham district has held its own. Shipments have been above the average, which means that no lost motion is to be noted in this district.

All reports in the steel line are favorable.

Coal-mining operations in Alabama are still active, production being over 400,000 tons the week. No intimation is given as yet of new business by reason of the approaching cessation of labor in the central competitive district, including Illinois, Indiana, Ohio, portions of Pennsylvania and other States. The coke market also is holding its own here, with

practically the entire battery of by-product coke ovens in operation. Independent coke producers are still shipping their output right along, while iron and steel manufacturers are storing coke from time to time. Quotations for foundry coke are around \$5.50, with \$6 still being asked where small lots are purchased. It is reiterated that in case of an emergency a good supply of coal and coke can be furnished, transportation companies co-operating.

The old-material market shows no change. Quotations are weak. The demand is centered almost exclusively on heavy melting steel and No. 1 cast. Heavy purchases of these two commodities have been made and dealers continue to work hard in making prompt deliveries.

Pig-iron and iron and steel scrap quotations follow:

PIG-IRON

No. 2 foundry 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.00 to \$19.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$18.50 to \$19.50; iron of 2.75 to 3.25 per cent silicon, \$19.00 to \$20.00; iron of 3.25 to 3.75 per cent silicon, \$18.50 to \$20.50; iron of 3.75 to 4.25 per cent silicon, \$20.00 to \$21.00; charcoal iron, f. o. b. furnace, \$20.00.

OLD MATERIAL

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	12.50 to 13.00
Heavy melting steel	12.00 to 13.00
No. 1 cast	15.00 to 16.00
Stove plate	13.00 to 14.00
No. 1 railroad wrought	11.00 to 12.00
Old car wheels	14.00 to 15.00
Old tramcar wheels	15.00 to 16.00
Machine-shop turnings	8.00 to 8.50
Cast-iron borings	8.00 to 8.50
Cast-iron borings (chem.)	15.50 to 16.00

Efforts to Have Florida Homeseekers' Rates All the Year Round.

The Florida Association of Real Estate Boards, 5 Phillips Building, Orlando, Fla., has issued a bulletin saying that its petition for homeseekers' rates on the railroads all the year round will be taken up at the next meeting of the executive committee of the Southeastern Passenger Association. The bulletin also says that the Florida Association of Real Estate Boards now has 26 petitions, representing 338,822 acres of land owned or controlled by developers who say that if homeseekers' rates were put in throughout the winter months they would be able to interest 9880 people in coming to Florida to inspect their property.

The regular homeseekers' excursion fares have been announced by the railroads. They will be effective April 5 and will expire December 6, 1927. They are for parties of five or more on one ticket, which is sold for the price per passenger of one fare plus \$2 for the round trip. They are good for 21 days, but the round trip must be completed within that time limit.

Navy Department Invites Proposals to Build Six Cruisers.

Washington, D. C.—Proposals have been invited by the Navy Department for the construction of six scout cruisers, Nos. 26-31, estimates having been asked from shipbuilding companies and navy yards. The cruisers are restricted to 10,000 tons displacement by the terms of the treaty for the limitation of armament and bids of three classes may be submitted under proposals issued. The construction of these cruisers, for which authorization and appropriation have been made by Congress, was included in a program of eight. The first two of these, designated Nos. 24 and 25 and named the Pensacola and Salt Lake City, respectively, are now under construction, the former at the New York Navy Yard and the latter at the yards of William Cramp & Sons, Philadelphia.

Sealed proposals will be received until March 25 by the Board of School Commissioners, W. H. Hand, secretary, Columbia, S. C., for the purchase of \$200,000 of bonds of the city of Columbia school district.

RAILROADS

Over 8,300,000 Cars Loaded in January and February.

Revenue freight loaded during the week ended on February 26 totaled 923,849 cars, according to reports filed by the railroads with the Car Service Division of the American Railway Association. Compared with the corresponding week last year, this was an increase of 10,914 cars, while it also was an increase of 59,753 cars over the corresponding week in 1925. It was, however, a decrease of 37,024 cars below the preceding week this year, due to the observance of Washington's birthday.

Coal loading for the week of February 26 totaled 201,959 cars, an increase of 21,489 cars over the same week last year and 50,390 cars above the corresponding week in 1925.

Grain and grain products loading totaled 44,096 cars, an increase of 4303 cars over the corresponding week last year and 5775 cars above the same week in 1925. In the Western districts grain and grain products loading totaled 26,980, an increase of 3132 cars above the same week last year.

Since January 1 there have been 8,348,680 cars loaded with revenue freight, which compares with 8,105,588 cars loaded in the corresponding period of last year and with 8,079,993 cars loaded in the similar period of 1925.

Two Texas Lines Located 172 New Industries in 1926—Many Homeseekers Also Reported.

Mercedes, Texas, March 11—[Special.]—During the year 1926 a total of 172 new industrial plants were located on the Gulf Coast Lines and the International-Great Northern Railroad, according to a statement just issued by the Missouri Pacific Railroad system, in which they are included. The aggregate capital investment in these enterprises is \$4,231,210, the report shows, and it is estimated they will produce 26,276 cars of freight annually.

New industries were located on the Gulf Coast Lines to the number of 110, as compared with 62 on the International-Great Northern. Capital invested in the industries located on the latter was greater, however, than the total for the Gulf Coast Lines, the report shows, the figures being \$3,195,310 for the International-Great Northern, as compared with \$1,055,900 for the Gulf Coast Lines.

The groups classed as produce and packing plants and plants for handling of oil products and supplies led in point of number located on these lines last year, there being 42 of the latter and 33 of the former. Twenty-six of each were located on Gulf Coast Lines. The capital invested in these industries totaled oil products and supplies, \$233,900, and produce and packing plants, \$152,300.

Twenty new manufacturing plants represented a total investment of \$2,194,200, while a like number of new cotton gins and compresses represents \$394,360. Twelve lumber, hardware and steel plants aggregate an investment of \$642,700, 10 general warehouses \$169,900, while the remaining investment of \$443,860 is classed under miscellaneous industries.

The Missouri Pacific also reports that during 1926 a total of 12,000 homeseekers were brought over its lines to the Lower Rio Grande Valley. Statistics are not available as to how many of them purchased property to make their homes here, but it is estimated that fully 75 per cent have become, or plan to become, permanent residents of the Valley. The homeseekers' movement over both the Missouri Pacific and the Southern Pacific during the present year promises to be much larger than last year, according to traffic officials.

Contract for \$2,250,000 to Build Extension of the Georgia and Florida Railroad.

Contract for the construction of the extension of the Georgia and Florida Railroad from Augusta, Ga., northward to Greenwood, S. C., 56 miles, has been awarded to Winston & Co., Inc., of Richmond, Va. The work will cost about \$2,250,000, including a small bridge. There were five bidders. Construction is to begin immediately and it is expected that the job will be completed in about a year.

The route is via Edgefield, S. C., and there will be four large crews at work, two of them between Augusta and Edgefield and two between Edgefield and Greenwood.

It appears, according to a press report from Augusta, that the line will enter that city over the bridge now used by the Southern Railway trains. At Greenwood connection may be made with the Southern, the Seaboard and the Atlantic Coast Line systems or with the Piedmont and Northern Railroad, which latter is the Duke electric interurban line to Spartanburg, S. C., and which is soon to be connected up through to Charlotte, N. C., as well as extended from Charlotte to Lexington, N. C., and eventually beyond to a final connection with the Norfolk Southern Railroad.

The extension to Greenwood will enable the Georgia and Florida Railroad to interchange traffic via the Clinchfield Railroad if that should be desirable.

Railroad Earnings in January.

Class 1 railroads in January had a net railway operating income of \$61,578,697, which for that month was at the annual rate of return of 4.20 per cent on their property investment, according to reports filed by the railroads with the Bureau of Railway Economics. In 1926 their net railway operating income amounted to \$65,761,272, or 4.59 per cent on their property investment. This compilation as to earnings in January is based on reports from 189 Class 1 railroads, representing a total mileage of 237,901 miles out of an aggregate of about 250,000 miles of line.

Gross operating revenues for January amounted to \$487,004,335, compared with \$481,418,187 in January, 1926, or an increase of 1.2 per cent. Operating expenses in January this year totaled \$387,489,361, compared with \$378,933,304 in the same month last year, or an increase of 2.3 per cent.

Class 1 railroads in January paid \$29,338,230 in taxes, an increase of approximately \$677,000, or 2.4 per cent over the same month last year.

Santa Fe May Extend Dodge City Branch.

Texline, Texas, March 12—[Special.]—The Atchison, Topeka and Santa Fe plans to extend its branch, which runs southwest from Dodge City, Kan., to Felt, Okla., to either Texline or Clayton, N. M., where intersection would be made with the Colorado Southern. Later the line will be extended southwest to Colmer, N. M., approximately 90 miles, to intersect there the transcontinental line of the Santa Fe.

Recent discovery of oil near Felt, Okla., together with the enormous increase of traffic of the Texas Panhandle lines of the system, have brought about a necessity for the extension of the Dodge City branch. It would be possible to use the new line as a "cut-off" in the transcontinental route of the Santa Fe. It would not only shorten the distance between Eastern and Western points, but it would be the means of avoiding some of the heavy grades on the present route. As soon as the preliminary surveys are finished application will be made to the Interstate Commerce Commission for a permit for construction, it is stated.

Railroad Records in Fuel Economy.

Greater efficiency than ever before in the use of fuel by road locomotives was accomplished by the Class 1 railroads in 1926, according to reports for the year just filed by them. An average of 137 pounds of fuel was required in 1926 to haul 1000 tons of freight and equipment, including locomotive and tender, a distance of one mile. This was the lowest average ever attained since the compilation of these reports began in 1918. The best previous record was established in 1925, when the average was 140 pounds.

Record efficiency in the conservation of fuel was also shown for the passenger service, the average amount for the year used in that service having been 15.8 pounds to move each passenger-train car a distance of one mile. The best previous low record for this service was in 1925, for which the average was 16.1 pounds. In 1920 the average was 18.8 pounds.

Class 1 railroads in 1926 utilized for road-locomotive fuel 101,007,549 tons of coal and 2,067,272,099 gallons of fuel oil. In each instance these amounts were somewhat greater than in 1925. This increase in the aggregate consumption of fuel was due wholly to the increased traffic handled.

There has been a steady increase in the conservation of fuel on the part of the railroads of this country since 1920. In part this has been due to the construction of improved locomotives, built with a view of increasing the tractive power, while at the same time reducing the amount of fuel needed to operate them. Educational programs have also been carried on by the railroads to instruct firemen as to the proper method of stoking locomotives and to encourage fuel conservation.

New Equipment.

Baltimore and Ohio Railroad has ordered 50 steel passenger cars from the Pullman Car and Manufacturing Company; also 15 baggage cars and 15 passenger and baggage cars from the Standard Steel Car Company.

Southern Pacific Company has ordered 1000 general-service cars from the Standard Steel Car Company and 200 tank cars from the General American Tank Car Company.

Santa Fe system has ordered 50 ballast cars from the Pressed Steel Car Company.

Texas and Pacific Railway is reported in the market for 15 locomotives of the 2-8-4 type and 5 switching locomotives of the 8-wheel type.

Freight Traffic Appointments.

The Seaboard Air Line Railway recently made appointments in its freight traffic department as follows: E. P. Mills, district freight agent; J. P. Derham, Jr., commercial agent; G. S. Woodward, city freight agent, all at 204 West Bay street, Jacksonville, Fla.

The Nashville, Chattanooga and St. Louis Railway has made the following appointment in its freight traffic department: H. W. Wells, freight traffic agent, at Fidelity Bank and Trust Building, Memphis, Tenn. Mr. Wells succeeds P. R. Conaghan, resigned.

Frisco System to Enlarge Yale Yards.

Plans to spend \$1,450,000 to enlarge its yards at Yale, Tenn., near Memphis, have been announced for the St. Louis San Francisco Railroad Company, according to a report from that city. This year about \$750,000 are to be spent on the improvements at Yale, including machine shop, boiler shop, blacksmith shop, roundhouse, power house, etc. There will also be considerable new equipment constructed at Yale this year, including 600 gondola cars; other car work will comprise alterations and improvements to existing equipment of the road.

Kansas City, Mexico and Orient Railway Plans More Construction.

Construction of an extension of the Kansas City, Mexico and Orient Railway from San Angelo, Texas, to Del Rio, Texas, 150 miles distant on the Rio Grande, is in contemplation, according to a report from Austin, the State capital, saying that a resolution has been introduced in the legislature to enable the counties of Tom Green, Schleicher, Sutton, Edwards and Val Verde to each vote on a county issue of \$1,000,000 of bonds to aid the proposed construction, or \$5,000,000 in all.

A report from Chihuahua, Mexico, says that construction in that country is progressing on the extension from Las Norias northward to the Rio Grande near Presidio, Texas, about 50 miles, and it may be completed in the summer of this year. A contract for additional work has been let to Terrazas & Marquis of Chihuahua.

Texas and Pacific Contract for Fort Worth Yards.

Fort Worth, Texas, March 10—[Special.]—The Texas and Pacific Railway has awarded the contract for the excavation of 1,000,000 cubic yards of earth necessary in the grading of its new yards in Fort Worth. The contract, which provides for both excavation and filling, amounts to \$500,000 and was let to the Foley Construction Company of Los Angeles. The total cost of the new yards will be approximately \$5,000,000, according to J. L. Lancaster, president of the road. The project calls for the construction of 53 miles of tracks and the building of a new bridge across the Clear Fork of the Trinity River, construction of roundhouse, shops, an artificial hump for assorting cars by gravity and other modern facilities.

Atlanta's Progressive Street Cars.

The Georgia Railway and Power Company, P. S. Arkwright, president, Atlanta, is issuing and using constantly a number of large and fine colored posters directing the attention of citizens to the excellence of the street-car service given, the leadership of the company in the number of new cars on its lines and the general efficiency of its entire organization. The progressiveness of the company and the excellence of its work have commanded general attention, with the result of a steady increase in its business.

Volunteer Knitting Mills Acquire Wellman Cotton Mills.

Athens, Ala.—It is announced that the Volunteer Knitting Mills of Chattanooga, Tenn., have acquired the Wellman Cotton Mills here, and with the installation of auxiliary machinery, for which buildings will be erected, the spinning capacity of the plant will be increased to 75,000 pounds of double-carded yarn weekly. When the new buildings have been completed, the mill will have a floor area of 150,000 square feet, it is said. The Wellman mill is at present equipped with 7328 ring spindles for the production of 5s to 26s carded yarns, hosiery yarns, tubes and cones, while the Volunteer mills are equipped with 34 latch-needle knitting machines, 70 sewing machines, dyeing and bleaching departments for the production of men's and boys' cotton ribbed union suits.

The Volunteer Knitting Mills are controlled by the Campe Corporation of New York, which is reported to have purchased also the entire spring needle equipment of A. V. Morris & Sons of Amsterdam, N. Y. This equipment consists of about 100 Cooper spring-needle machines, with auxiliary equipment, to make men's light and heavy weight union suits.

TEXTILE

New Mill Under Consideration at Ware Shoals.

Press reports state that the Ware Shoals Manufacturing Company of Ware Shoals, S. C., is considering the erection of a new five-story cotton mill, 304 by 134 feet, to be connected to mill No. 1, and that bids have been opened for the structure. Regarding the erection of this new mill, the company writes the MANUFACTURERS RECORD: "Nothing definite has been decided as regards our building a new textile mill. The matter has been discussed more or less, but at present even discussion is being held in suspense."

It is reported that the new mill will be of steel construction and will house approximately 30,000 spindles, together with complementary machinery, and that the cost of building and equipment will approximate \$1,000,000.

To Take Over Ronda Cotton Mills.

Dr. J. W. Choate of Salisbury, N. C., and associates have organized the Wilco Mills, which have taken over the Ronda Cotton Mills at Ronda, N. C., at a receiver's sale, the purchase price reported as \$53,000. Dr. Choate advises the MANUFACTURERS RECORD that the property has been leased for a period of five years to the Johnston Manufacturing Company of Charlotte. Incorporators of the Wilco Mills are listed as T. W. Church, J. A. Poplin and R. L. Hickerson, all of Ronda.

The Ronda mills are equipped with 28 cards, 5572 spindles and 1600 twister spindles for the production of yarns, 8s to 12s, 1 to 8 ply, and the Johnston mills with 11,800 ring spindles for the production of combed knitting yarns.

Union-Buffalo Mills Buy Fairmont Property.

In a letter to the MANUFACTURERS RECORD, H. B. Jennings, president of the Union-Buffalo Mills Company, Union, S. C., states that his company has purchased the Fairmont Manufacturing Company of Fairmont, S. C., and took possession of the property on March 1. No improvements or additions are contemplated. The Fairmont mills are equipped with 12,608 spindles and 328 looms for the production of print cloths and sheetings, while the Union-Buffalo mills operate 180 cards, 89,920 ring spindles and 2132 automatic looms for manufacturing print cloths.

For Building Plant in Alabama.

Regarding the construction of the proposed underwear plant at Florence, Ala., for the Gardner and Warring Company of Amsterdam, N. Y., Robert & Company, Inc., of Atlanta, engineers for the plant, advise the MANUFACTURERS RECORD that a general contract awarded a few weeks ago was held up pending financial arrangements. Local interests have now decided to go ahead with the construction on a cost-plus basis. W. M. Richardson of Florence is handling details of the project.

Installing Braiders at Carrollton.

P. L. Shaefer, secretary and treasurer of the Carroll Mills, Inc., of Carrollton, Ga., advises the MANUFACTURERS RECORD that his company is installing additional braiders which it has purchased from the New England Butt Company of Providence, R. I. These mills are at present equipped with 10 latch-needle knitting machines, 2 sewing machines and 70 braiders for the production of special knit fabrics and braided products and flat and tubular braids.

GOOD ROADS AND STREETS

\$3,000,000 Road-Building Program of One Mississippi County.

Gulfport, Miss.—Harrison county has a road-building program which is attracting wide attention, according to Capt. W. S. Hawkins, county engineer in charge of road construction. In 1926 a total of 34 miles was paved with Warrenite and about 44 miles with gravel, while the 1927 program calls for paving approximately the same mileage and graveling 32 miles. Roads so far constructed have been financed by a bond issue of \$1,500,000, voted in November, 1924. Another bond issue of \$1,665,000 was voted in March, 1926, and funds from this issue will be used to carry on the 1927 program.

The entire program will represent an expenditure of more than \$3,000,000 and by the end of the current year it is expected that every section of the county will be provided with a paved or graveled highway, and that all streams and bays on the Mississippi coast will have been bridged.

To Vote on \$450,000 Bonds for Road.

Sarasota, Fla.—Sarasota county will vote March 29 on bonds in the amount of \$450,000 for the Longboat Island Highway, which will extend for a distance of six miles to the county line on Longboat, where it will connect with a highway to be built by the Manatee County Commissioners. Of the total issue, \$200,000 will be expended for building the Longboat Island causeway and \$250,000 for furnishing and erecting a draw span over the deep-water channel in the St. Armand's-Longboat causeway.

Bids will be received until March 22 by the State Road Department, Tallahassee, for the construction of the Tamiami Trail south from Sarasota to Venice, the road to be of asphaltic construction. The department will soon make final survey and location of the same road from Venice to the Miakka River and work on this will be started as soon as plans and specifications can be prepared.

Kentucky Contracts to Involve 116 Miles.

Frankfort, Ky.—Bids will be opened March 31 by the State Highway Commission on a number of road projects, which will involve approximately 116 miles, and for the construction of a bridge. Road work will embrace five projects covering a total of approximately 60 miles of grade and drainage, four projects covering a total of about 18 miles of surfacing, one for 12.4 miles of grade, drainage and surfacing, and five projects covering crushed stone deliveries on 27.2 miles. The proposed bridge will be constructed on the Corbin-London Highway, in Laurel county, and will involve 0.31 mile of grade, drain and surfacing.

Missouri Awards Roads Contracts.

Jefferson City, Mo.—Contracts have been awarded by the Missouri State Highway Commission for the construction of 15 road projects, embracing a total of more than 42 miles and for three bridge projects. Road work will cover a total of 5.51 miles of concrete, 10.71 miles of graded earth work, 1.7 miles of chat roads and 24.38 miles of subsoil treatment.

North Carolina County to Sell Bonds.

Kenansville, N. C.—Bids will be received until March 23 by the Duplin County Commissioners, Lawrence Southerland, clerk, for the purchase of \$115,000 of road and bridge bonds. The bonds will bear an interest rate of 4½ per cent and will be issued in denominations of \$1000.

Votes \$250,000 of Road Bonds.

Harrodsburg, Ky.—Road bonds in the amount of \$250,000 have recently been voted by Mercer county at a special election. Proceeds from the sale of the bonds will be matched by State and Federal funds for the completion of the county's primary road system, of which there are approximately 53 miles.

Maryland to Expend \$1,000,000 to Eliminate One-Way Bridges.

Annapolis, Md.—A bill providing for a \$1,000,000 State loan to eliminate one-way bridges on State roads has been signed by Governor Ritchie and assembly officers. One-half the amount will be expended this year and the remaining half in 1928.

Mississippi County Asks Road Bids.

Greenville, Miss.—Bids will be received until March 29 by the Washington County Board of Supervisors for paving Federal-aid project No. 49, approximately 4.8 miles, and leading from Greenville to the Mississippi River Ferry to Lake Village. It is estimated that the project will cost \$120,000 and require 120 days to complete. Plans and specifications may be obtained from the office of H. C. Dietzer, State highway engineer, Jackson.

Cuban Highway Work Under Way Soon.

Construction work in connection with the building of the 750-mile Central Highway in Cuba will begin simultaneously in each of the provinces in the near future, according to an announcement made by Warren Brothers Company, Boston, Mass., who have the contract. Special roadbuilding machinery as required has been shipped from this country. Cuban labor and materials will be utilized to the greatest possible extent, say the contractors.

The several special taxes levied for a period of 10 years from which the funds to pay for the work will be derived and the estimated revenues for each year are as follows:

Traffic and locomotion	\$1,500,000
Gasoline tax, at source, 10 cents per gallon ..	3,000,000
¼ of 1 per cent gross sales tax	6,000,000
Annual budget credit	5,000,000
50 per cent annual surplus above budget	1,500,000
Increased duties 3 to 10 per cent	2,500,000
¼ of 1 per cent of all outgoing funds	1,500,000
2 per cent real estate property tax	1,500,000

Total estimated per year..... \$22,500,000

The yearly distribution of the special funds for public works on the basis of \$20,000,000 per year total revenue is as follows: Roads, 45 per cent; water and sewers, 10 per cent; schools, \$1,000,000; hospitals, 5 per cent; buildings, 5 per cent; Havana, beautification and improvement, 20 per cent; unforeseen, 10 per cent. These special taxes were put in effect July 15, 1925, so that by July, 1927, there will have been collected two years' taxes, providing about \$18,000,000 for roads. The law provides that the funds collected shall be apportioned each year among the six provinces.

In order to make possible the speeding up of the work in anticipation of collection of the special taxes, the Cuban Government has arranged through the Chase National Bank of New York city a loan of \$10,000,000 at 6 per cent interest. The principal will be paid after 1931 out of the funds collected from the special taxes after that date. Particulars regarding this loan were published in the MANUFACTURERS RECORD of March 3.

LUMBER AND BUILDING MATERIALS

Building Big Wood-Preserving Plant at Charleston, S. C.

Charleston, S. C., March 12—[Special.]—Construction is under way on the big wood-preserving plant for J. F. Prettyman & Sons here. It was designed by and is being constructed under the supervision of Grant B. Shipley, engineer, Pittsburgh, Pa. The plant site covers 47 acres just north of the city limits, extending from the King street extension to the Ashley River. It is served by the Atlantic Coast Line, Seaboard Air Line and Southern Railway. There is also a wharf, 500 feet long, with a depth alongside of 25 feet.

There will be four main buildings, with steel frames, corrugated iron roofs and sidewalls, a general office, a superintendent and inspector's office and a completely equipped laboratory. Miscellaneous equipment will include: Two treating cylinders, 8 by 133 feet; two reuping cylinders, 9 by 71 feet; two scale tanks, 8 by 26 feet; two tank scales, 120 tons capacity; two unloading tanks, 9 by 40 feet; three air receivers, 5 by 40 feet; two working tanks, 18 by 30 feet, capacity 120,000 gallons; 300-horsepower boiler, with feed-water pump and heater; two feather-valve dry-vacuum pumps, with motors; two air compressors, with 75-horsepower motors, and two 1000-square-foot vertical surface condensers.

The yard and general equipment is described as follows: Twenty main tracks, standard gauge, totaling 6.5 miles; 826 lineal feet of loading platform; piling basin, 700 feet long; 150 tie and lumber trams and piling bolsters, standard gauge; two 20-ton locomotive cranes, one 40-ton steam locomotive, one 15-ton gasoline locomotive, one tie adzing and boring plant and one timber-framing plant.

Storage facilities will include: Two tanks, 32 by 26 feet, 300,000 gallons capacity; two tanks, 57 by 35 feet, 400,000 gallons capacity; 1,100,000 tie storage yard and ample storage space for piles, poles and timbers.

The water supply and fire-protection facilities will include: One 50,000-gallon elevated water tank, 118,000-gallon water reservoir and direct connection with the city of Charleston water supply through a 24-inch main.

Imported creosote oil will be received at the company's own docks. In addition domestic oil will be brought from the Birmingham district, the haul being short and the rates low. The company owns 60,000 acres of timber lands and operates sawmills cutting 20,000,000 feet board measure annually. Several hundred producers of lumber, ties, piles and poles also operate within a radius of 150 miles of the plant in the heart of the Southern yellow-pine district, thus insuring a ready source of supply.

Contract for the treating cylinders, reuping cylinders, scale tanks, unloading tanks and air receivers was placed with R. D. Cole Manufacturing Company, Newnan, Ga., in December. Much of this equipment has been rolled and fabricated by the manufacturer, and scale tanks and unloading tanks will be shipped early this month. The first cylinders will be in place about April 15. Contract for the working tanks and storage tanks were placed with the Chattanooga Boiler and Tank Company, Chattanooga, Tenn., in December, and erection of these tanks will begin this month. The contract for the boilers was let to the Casey-Hedges Company, Chattanooga, Tenn., early last month. The Worthington Pump and Machinery Corporation, New York city, received the contract for two vacuum pumps, with motors, for delivery April 1. Contract for two air compressors and motors was placed with the Westinghouse Air Brake Company, Wilmerding, Pa., for delivery April 1. The order for two condensers was given the J. P. Devine Company, Buffalo, N. Y. The two tank scales will be furnished by the Hoe Scale Company, Pittsburgh, Pa.,

and delivery is set for April 1. Tie and timber trams and piling bolsters have been ordered from the Machine Steel Casting Company, Alliance, Ohio, for delivery May 1. The R. D. Cole Manufacturing Company, Newnan, Ga., has the contract for a 50,000-gallon elevated water tank, which will be shipped this month.

Lumber Industry Picking Up.

Washington, March 10.—The softwood lumber industry registered a gain in production, shipments and new business for the week ended March 5 as compared with the previous week, according to telegraphic reports received by the National Lumber Manufacturers Association from 315 mills. But in all three factors the softwood mills are running somewhat behind last year, both currently and for the year so far. Reports from 140 hardwood mills indicate expansion in production and shipments for the week, with probably some decline in new business. As compared with last year, at this time, the past week's figures indicate that the hardwood industry is exceeding its 1926 record. Employment in both branches is about normal.

The unfilled orders of 190 Southern Pine and West Coast mills at the end of last week amounted to 526,389,592 feet, as against 505,054,391 feet for 189 mills the previous week. The 117 identical Southern Pine mills in the group showed unfilled orders of 235,983,365 feet last week, as against 232,235,945 feet for the week before. For the 73 West Coast mills the unfilled orders were 290,406,227 feet, as against 272,818,446 feet for 72 mills a week earlier.

The Southern Pine Association reports from New Orleans that for 117 mills reporting, shipments were 7.00 per cent below production and orders 1.79 per cent below production and 6.28 per cent above shipments. New business taken during the week amounted to 63,393,855 feet (previous week 64,976,069), shipments 59,646,435 feet (previous week 59,396,607) and production 64,552,377 feet (previous week 65,118,603). The normal production of these mills is 73,898,365 feet. Of the 115 mills reporting running time, 91 operated full time, 15 of the latter overtime. Five mills were shut down and the rest operated from two to five and one-half days.

The Hardwood Manufacturers Institute of Memphis, Tenn., reported from 127 units (37 more units reporting than for the week earlier) marked increases in production shipments and new business. The normal production of these units is 21,336,000 feet.

Southern Brick to Bear Trade-Mark.

Charlotte, N. C.—At a meeting here of the Southern Clay Products Association, of which W. E. Dunwoody of Macon, Ga., is president and A. H. Merry of Augusta is treasurer, it was decided that the trade-mark of the Association should be stamped on every brick manufactured by Association members. The next meeting will be held in April at Columbia, South Carolina.

Southeast Georgia Turpentine Association.

Waycross, Ga.—Organization of the Southeast Georgia Turpentine Association, with headquarters in Waycross, has been announced by Judge J. L. Crawley, chairman, and Jack Murray, secretary. At its first session the Association voted to recommend to factors that they add one-half of 1 per cent to present costs for the creation of a fund to advertise and market turpentine and resin.

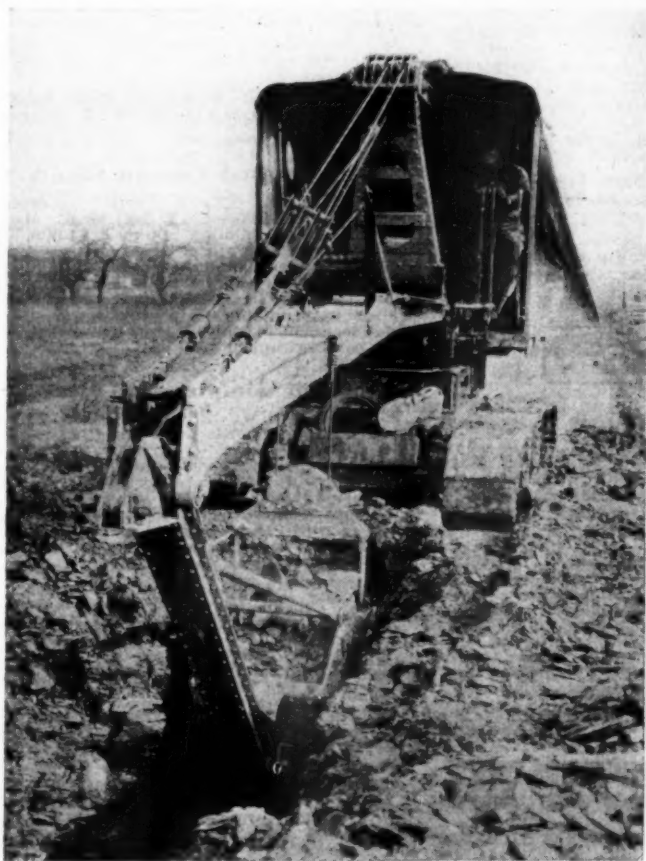
MECHANICAL

Trench Hoe Attachment for Cranes.

The trench hoe attachment for cranes, which is illustrated herewith, is of five-eighths cubic yard capacity and it has been developed by the Universal Crane Company of Cleveland, Ohio, to further increase the all-around application of their cranes to handle the harder kinds of digging work, in which instances full efficiency is not attained with the clamshell or the dragline buckets. The picture shows the stony, tough material that was dug up by this new device.

Three major parts compose the attachment. There is a 19-foot boom, a dipper arm and an auxiliary A-frame member, which is designed to take the stresses and strains of trench-hoe operation. The attachment is adaptable for use on any Universal crane with double drums separately driven. It is readily and quickly transferable with the standard crane boom for use with clamshell or dragline bucket, hook block, backfiller board, etc.

The working radius of this attachment is a maximum reach of 26 feet radius and a digging depth of approximately 13 feet. These are obtained with the crane mounted on a standard 5-ton motortruck. In designing the device great care was exercised to develop strength and sturdiness and yet keep the weight down to permit stability with the truck mounting. Thus, with the trench hoe working at the maxi-



CRANE WITH TRENCH HOE IN OPERATION.

mum radius, the unit possesses the same stability as is had with the standard 24-foot crane boom and one-half-cubic-yard clamshell bucket.

An exclusive feature of the attachment is the automatic tilt bucket for dumping material directly into trucks. The five-eighths-cubic-yard bucket is hinged at the front end and

arranged to pivot about this point for spilling material. Material is taken in and dropped through the front open end of the bucket. Many advantages are obtained by this design. The maximum clearance for dumping into trucks is obtained without the need for booming up higher to permit a bottom bucket door to swing open. The bucket is 32 inches wide, which, with side teeth, will cut a 40-inch trench.

A Precedent in Excavating Machinery.

A precedent in the development of power shovels has been established in the Lorain-60 one-yard shovel, crane and dragline, which is the latest product of the Thew Shovel Company of Lorain, Ohio.

In the past, when changing conditions made a larger capacity machine necessary for standard use, it has been the custom to step up the old standard machines to the larger capacity, and this meant strengthening of parts



NEW ONE-YARD MACHINE IN USE.

throughout to meet the increased working strains. But the Lorain-60 is the Lorain-75—a 1¼-yard machine—stepped down to one-yard capacity, and it is still the larger machine in everything but dipper capacity, power plant, power take-off and counterweight.

Moreover, the new excavator retains all of the strength and other advantages of the larger capacity machine; it has the same interchangeability of booms, shovel, crane or dragline. It will handle a crane boom up to 50 feet in length and it can be counterweighted for unusual stability.

When the owner of one of these Lorain-60 machines feels the need of a larger machine it is not necessary for him to dispose of the old one, for by substituting a power plant such as is furnished with a 1¼-yard machine, together with accessories, he will become possessed of a machine fully suited to his requirements.

Bids for \$2,700,000 Unit of Telephone Building.

Dallas, Texas.—Construction bids will be opened about April 15 for the first unit of the proposed building to be erected here by the Southwestern Bell Telephone Company of Texas at an ultimate cost of approximately \$4,500,000. This unit will be of steel frame construction, with brick and stone exterior, 175 by 107 feet, 12 stories initially and foundation for 18 stories, to cost approximately \$2,700,000 without furnishings and equipment. I. R. Timlin of the Southwestern Bell Telephone Company, St. Louis, and Lang & Witchell, Dallas, are the architects. W. J. Knight & Co., St. Louis, are the structural engineers, and B. D. Hull, Dallas, the company engineer.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airplane Plants, Stations, Etc.

Fla., Pensacola—Construction work at Pensacola Naval Air Station, reported, will include 2 hangars, storehouse and storm doors on hangars, estimated cost \$800,000; soon receive bids; Curtis D. Wilbur, Sec. of Navy, Washington, D. C.*

N. C., Asheville—J. A. Richbough, Coxé Ave.; Chmn. Aviation Committee, and associates, interested in establishing a "Triple A" field, having hangars, sleeping quarters, night lighting equipment, field with runway of 2500 ft. and approaches in all directions.*

Tex., Fort Worth—City let contract to Thomas S. Byrne, Ft. Worth National Bank Bldg., at \$21,500 for airplane hangar at municipal airport, reported.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Alaga—State Highway Dept. of Alabama, Montgomery and State Highway Dept. of Georgia, East Point, plan bridge over Chattahoochee River, near Alaga; steel girders, swing span over channel; W. A. McCalla, Alabama State Highway Engr.*

Ala., Demopolis—St. Louis-San Francisco Ry., F. G. Jonah, Ch. Engr., St. Louis, Mo., plans constructing railroad bridge across Warrior River, near Demopolis.

Ala., Tuscaloosa—Tuscaloosa County Board of Revenue and State Highway Dept., Montgomery, plan paving Tuscaloosa-Birmingham road, building concrete viaduct and filling in of approaches at Alberta City.

Florida—State Road Dept., Tallahassee, received low bids for 3 bridges: 88-ft. bridge across Little River, Road No. 4, Dade County, James Betteridge, 1960 N. W. 24th Court, Miami, \$37,553; Leon County, 400-ft. bridge, Road No. 19, concrete, Peterson & Earnhart, Montgomery, Ala., \$31,611; treated timber, Stevenson Engineering & Contracting Co., Jefferson Bldg., St. Augustine, \$13,488; cypress timber, at \$12,492; Jefferson County, 300-ft. bridge, Road No. 19, concrete, Peterson & Earnhart, \$24,946; treated timber, Stevenson Engineering & Contracting Co., \$10,068; cypress timber, \$9312.*

Fla., Clearwater—Pinellas County Comms., Karl B. O'Quinn, Clk., plan causeway from Oleander Way, Pasadena, to connect with Carolina Ave., St. Petersburg Beach, including 13 mi. highway and 2 bridges over Johns Pass and Blind Pass.

Fla., Stuart—City receives bids Apr. 6 for 3 bridges: Belle Ave.; Ave. B; Pinewood St.; Butler, Barnett & Taylor, Engrs., Citizens Bank Bldg., West Palm Beach.*

Ga., Ludowici—Long and Tattnall Counties Comms., plan Long Point Bridge at line of counties, on route from Savannah to Glennville and Lane Bridge.

Kentucky—State Highway Comn., Frankfort, receives bids Mar. 31 for 2 bridges: Barren-Allen County, on Glasgow-Scottsville road, four 45-ft. reinforced concrete spans, reinforced concrete substructure, 180-ft. steel span; separate or combined bids on substructure and superstructure, 249,000 lbs. structural steel, 126,210 lbs. reinforcement; Pendleton County, on Falmouth-Brooksville road, two 154-ft. steel spans, reinforced concrete substructure work, combined or separate bids on steel spans and concrete substructure and superstructure, 397,400 lbs. structural steel, 32,720 lbs. reinforcement; plans from E. N. Todd, State Highway Engr.

Ky., Calhoun—Fon and J. L. Rogers, Greenville, plan bridge over Green River, between Calhoun and Rumsey, 325-ft. navigation span, 40-ft. maximum high water clearance for 125-ft. channel span.

La., Bastrop—Morehouse Parish Police Jury, J. Lester White, Engr., receives bids within 30 days for steel span across Bayou Bartholomew, at Point Pleasant, west of Bastrop.

La., Shreveport—City, L. E. Thomas, Mayor, plans Market Street viaduct, cost \$500,000. See Financial News—Bond Issues Proposed.*

Maryland—Governor Albert C. Ritchie, Annapolis, approved \$1,000,000 State loan to eliminate one-way bridges on State roads.

Miss., Gulfport—Harrison County Board of Supvrs. receives bids Apr. 5 for bridge across Back Bay at Pop's Ferry, concrete piling approach, steel draw span, estimated cost \$40,000; W. S. Hawkins, Engr. Lately noted bids Mar. 8.

Mo., Springfield—City Comms. plan 2 viaducts over Jordan Valley: 1056-ft. steel and concrete Benton Ave. viaduct, 40-ft. roadway, 6-ft. sidewalks, estimated cost \$200,000; 1788-ft. steel and concrete Grant Ave. viaduct, 40-ft. roadway, 6-ft. sidewalks, 35-ft. clearance, over Jordan Creek. See Financial News—Bond Issues Proposed.*

N. C., Asheville—Asheville Paving Co. is building McDowell St. viaduct; Gilbert C. White Engineering Co., Durham, designers; B. M. Lee, City Engr.

N. C., High Point—City received low bid from Atlantic Bridge Co., Inc., Jefferson Bldg., Greensboro, at \$24,500 for 2 reinforced concrete and structural steel bridges.

Tennessee—Dept. of Highways and Public Works receives bids for 37 bridges. See Roads, Streets, Paving.

Tenn., Memphis—Shelby County Board of Road Comms., Luther F. Jones, plans 100-ft. creosoted and pile bridge across Royster Creek, between Millington and Cuba.

Tex., Lagrange—Fayette County, Theo. W. Lueders, County Judge, plans underpass on Highway No. 71 under San Antonio and Aransas Pass Rys., estimated cost \$10,000; R. E. Schiller, County Engr.

Tex., Roma—Starr County Bridge Co., plans vehicle and foot bridge across Rio Grande River, at Roma.

W. Va., Point Pleasant—McLaughlin, MacAfee & Co., Oliver Bldg., Pittsburgh, Pa., and MacKubin, Goodrich & Co., 111 E. Redwood St., Baltimore, Md., have engaged engineer to make survey for construction of Gallipolis-Point Pleasant Bridge.

Contracts Awarded

Fla., New Port Richey—Pasco County Comms., Dade City, let contract to Henry Quist at \$24,600 for bridge over Cotee River, at foot of Main St.; 100-ft. reinforced concrete, 40-ft. channel span in clear, 10 ft. above river at high tide, 20-ft. roadway, 6-ft. sidewalks.

Missouri—State Highway Dept. let contracts for 3 bridges. See Roads, Streets, Paving.

Mo., Noel—Nevada Construction Co., Nevada, Mo., has contract at \$9003 for concrete bridge over Butler Creek, Federal Highway No. 71.

S. C., Charleston—Sanitary and Drainage Comn., J. D. Leseman, Chmn., let contract to Dawson Engineering Co., 21 Broad St., at \$47,490, for creosoted timber, treated, bridge across Breach Inlet.*

Canning and Packing Plants

Ky., Bardstown—Logan and Robert Hunter reported establish canning plant.

Mo., Crane—W. F. Akin of Akin Bros. Canning Co., Seneca, reported, acquired 3 canning plants near Crane.

Mo., Poplar Bluff—Post Bros. & Co., Commerce, reported, establish brick plant.

Tex., Donna—Dunn Produce and Packing Co. is erecting canning plant, Applebee & Highnote Co., Contrs.; will install sealer, washer, filler, etc. See Want Section—Machinery and Supplies.

Tex., McAllen—M. Silverfield, reported, install machinery for tomato canning.

Clayworking Plants

Mo., Poplar Bluff—Haydenite Bros., St. Louis, reported, considering erecting brick plant.

N. C., Salisbury—G. W. and C. W. Isenhour has plant with daily output 30,000 brick; acquired 44 acres additional clay land.

N. C., Walnut Cove—R. W. and N. R. Hedgecock, reported, leased building, make improvements for brick plant, daily output 30,000 brick.

Coal Mines and Coke Ovens

Tenn., Oneida—Tunnell Hill Coal Co., incorporated; A. C. Terry, W. C. Terry.

Va., Dumbarton—Garnet Coal Corp., capital \$100,000, chartered; T. H. Harris, Pres.; M. O. Harris, Sec.

W. Va., Caldwell—Greenbrier River Smokeless Coal Co., capital \$25,000, W. K. Morgan, W. T. Morgan.

Concrete and Cement Plants

Tex., Houston—Trinity Portland Cement Co., C. E. Ulrickson, V. Pres.-Gen. Mgr., Santa Fe Bldg., Dallas, offering \$1,000,000 first mortgage collateral trust, three year, 5½% gold notes, through First National Co., Mississippi Valley Trust Co.; G. H. Walker & Co., all of St. Louis, Mo.; proceeds of issue applied to reduction of present current indebtedness, completion of Houston plant and other corporate purposes.*

Cotton Compress and Gins

Ala., Athens—W. E. Chairs, Mgr., Union Compress & Warehouse Co., Falls Bldg., Memphis, Tenn., reported, erect \$250,000 cotton compress, capacity 75,000 bales annually, cotton storage warehouse, water tank, 100,000 gal; company wires: "We are building two 5000 bale compartment, wood construction, equipped with Webb high density press, at Athens. Do our own construction."

La., Dodson—Jonesboro Gin Co., reported plans cotton gin.

Miss., Tupelo—Merchants' Compress Co., capital \$50,000, incorporated; S. P. Stone, J. R. Jones.

Okla., Waurika—J. N. Stout and associates, reported, construct electric gin with 5 stands of 80 saws each.

Tex., Alamo—C. A. Mankin, San Antonio, and Martin & Simmons, Donna, reported, erect \$25,000 cotton gin at LaBlanca.

Cottonseed-Oil Mills

Miss., Amory—Amory Cotton Oil Co., capital \$30,000, incorporated; L. E. Pucket, C. M. Harrison, A. S. Gilbert.

Tex., Taft—Beeville Cotton Oil Co., capital \$35,000, incorporated; H. W. Hall, W. L. Weber, E. N. Tutt.

Tex., Taft—Beeville Cotton Oil Co., capital \$35,000, incorporated; H. W. Hall, W. L. Weber, E. N. Tutt.

Drainage, Dredging and Irrigation

Fla., Ft. Lauderdale—See Miscellaneous Construction.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., Jacksonville—See Miscellaneous Construction.

Fla., Tallahassee—Everglades Drainage District Commrs. authorized bond issue of \$3,000,000 for drainage work until July 1, 1928; seven new canals necessary to complete operations; Fred C. Elliott, Ch. Drainage Engr. See Financial News—Bond issues Proposed.

Ga., Waycross—J. D. Blalock and J. S. Elkins, reported, interested in organizing drainage system in southern section Ware County along Central Dixie Highway.

N. C., Washington—See Miscellaneous Construction.

Texas—Holly Beach, Inc., San Benito, Tex., reported, has permit from State Board Water Engrs., Austin, for irrigation project; work includes ditches, laterals and pumping plants; develop Holly Beach and Bayside Development Co.

Texas—James E. Graham, 408 E. Quincy St., San Antonio, reported, granted permit to divert water from Frenos Resaca in Cameron County for irrigating 3071 acres land, install pumping plants, etc.

Tex., Brownsville—El Jardin or Cameron County Water Improvement Dist. No. 5 will receive bids Mch. 22 for drainage project, includes approximately 160 mi. open drains, 10 mi. pipe drains, reclaiming about 30,000 acres; estimated cost \$600,000. See Want Section—Bids Asked.

Tex., Dallas—John J. Simmons, Chrm. Board of Suprvs., Levee and Trafficway Improvement Dist., plans reclaiming 10,200 acres Trinity River bottom lands; cutting new channel near west side present floodway, filling in old winding channel for industrial sites; Myers & Noyes, Engrs., Mercantile Bank Bldg.*

Tex., Eagle Pass—Maverick County Water Improvement Dist. No. 1 T. S. Wyche, Sec., advises: "For purpose of financing complete survey of project and final cost, District has voted, issued and sold series of preliminary notes, aggregating \$50,000. Engineers are now making surveys and State Board Engrs. granted water from Rio Grande. Until survey and estimates are completed no further steps can be taken to vote bonds for construction."*

Tex., San Antonio—Walsh & Burney, Inc., 928 N. Flores St., has contract for canal. Section No. 1, Great Bend Cut-off, flood prevention work; first section 685-ft. long, retaining wall 25 to 30-ft. high; cost \$162,726; F. C. Crecellus, Engr.*

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Camp Hill—City is installing white way system, 17 Westinghouse 250 c.p. units mounted on King standards, supply voltage 115-250 volts, using parkway cable; all material purchased; Alabama Power Co., Birmingham, assisting in installation and handling service connections.*

Ala., Florala—Alabama Public Service Comsn., Montgomery, reported granted permission to town to sell electric utility properties to Gulf Electric Co., Mobile.

Ala., Marion—City, reported, let contract to Alabama Power Co., Birmingham, for installing white way.

Ark., Fayetteville—Southwest Power Co., Center St., reported, expend \$50,000 for distributing system and \$10,000 for lighting system; W. B. Harris Co., Engr.

Ark., Stuttgart—C. C. Cox and Robt. Curtis, reported, construct electric plant and transmission line.

D. C., Washington—Public Utilities Comm., District Bldg., authorized issuance by Potomac Electric Power Co., 14th and C Sts. N. W., of \$5,760,699 of 5½% preferred capital stock, also to borrow money on \$1,608,000 of 6% 30-year general and refunding gold bonds for purpose of completing fund to retire, at 105, \$1,760,000 of 7% bonds maturing April 1.

Florida—Day & Zimmerman, Inc., 16th and Walnut Sts., Philadelphia, Pa., reported, acquired from A. E. Fitkin & Co., 165 Broadway, New York, controlling interests in National Public Service Corp.; operating in New Jersey, Pennsylvania, Delaware, Maryland, Virginia, North Carolina, Georgia and Florida.

Ga., Albany—City voted \$10,000 bonds for

enlarging light plant and \$12,000 street light extension. Address The Mayor.

Ga., Atlanta—Drexel & Co., Philadelphia, Pa.; Bonbright & Co., Inc., and Harris, Forbes & Co., both New York, are offering \$45,000,000 first and refunding mortgage gold bonds of Georgia Power Co.; company formed through consolidation of Georgia Railway & Power Co. and other companies, supplies electric light and power, directly or indirectly, practically all of Northern and Central Georgia; properties include 15 hydro-electric generating plants with installed capacity of over 330,000 h.p.; 4 steam generating plants of over 30,000 h.p. capacity; financing will result in retirement of over \$25,000,000 bonds of predecessor companies, the majority of which bear interest at 6 or 7% and the reimbursement of expenditures incurred for construction and for other corporate purposes.*

Ga., Augusta—City reported planning construction of hydro-electric plant on Augusta Canal; may vote on bonds.

Ga., Moultrie—Baker County Power Co., reported, negotiating for municipal power plants at Moultrie, Camilla, Sale City and Doerun.

Kentucky—Kentucky Utilities Co., Starks Bldg., Louisville, reported, expend \$10,000 for distribution system at Wickliffe; improve street lighting system at Cynthiana; install street lighting at Clarkston.

La., Baton Rouge—City Comm. receives bids March 25 for lighting standards. See Want Section—Bids Asked.

Md., Pasadena—Charles H. Heintzman, Jr., 922 S. Charles St., Baltimore, and others, interested in electric extension to Green Haven, Pinehurst, Riverla Beach, Long Point and other developments along Stony Creek, Rock Creek and Magothy River; will form company to build transmission lines and purchase power from established company.

Miss., Gulfport—Mississippi Power Co., reported, install white way system.

Miss., Water Valley—City reported has preliminary plans for installing 300 h. p. Diesel engine and generator in light and water plant; cost \$40,000.

Mo., Farmington—A. E. Fitkin & Co., 165 Broadway, New York, reported, negotiating for municipal light and power plant and 20-year franchise.

Okla., Holdenville—City votes April 5 on \$18,000 electric light bonds. Address The Mayor.

Okla., McAlester—Southwest Power Co. reported expend \$85,000 for improvements and building 8-in. gas line from Blocker to Gaines Creek.

Tennessee—Southern Cities Power Co. Provident Life Bldg., Chattanooga, reported, granted permission by Alabama Public Service Comsn., Montgomery, for 44,000 volt transmission line from Tennessee line near Anderson to Stevenson, Ala. and from Stevenson to Scottsboro.

Tenn., Henry—See Water Works.

Tenn., Mountain City—Edmondson Power Co., reported, extend power lines from Damascus, Va., distance 15 miles.

Tex., Amarillo—Southwestern Public Service Co. advises improvements company will make this year will cover reconstruction and extension of distribution system, installing 13,000 volt circuit with outlying substations and local distributions, and extensions to tie in with new city water system; all work by the local construction department; first unit of power plant practically completed; construction handled by Day & Zimmerman Engineering & Construction Co., 1600 Walnut St., Philadelphia, Pa.; in connection with new plant have provided substation for high tension transmission lines and another substation for local distribution.*

Tex., Dallas—Dallas Power & Light Co. increased capital \$6,000,000 to \$7,000,000.

Tex., Plainview—City let contract to Texas Utilities Co., 408 Pine St., St. Louis, Mo., for white way system on various streets.

Va., Bristol—Tennessee Central Service Co., incorporated; Ernest H. Johnson, E. E. McWhiney, both Westfield, N. J.; Robert E. Joseph, Mutual Bldg., Richmond.

Va., Rich Creek—Rich Creek Peterstown Power Co., capital \$10,000, incorporated; W. O. Woodson, Paul L. Comer, A. A. Adair.

W. Va., Hundred—Monongahela West Penn Public Service Co., Fairmont, is constructing power plant, 12x42 ft., corrugated galvanized steel, with steel frame work and concrete foundations; install 150 h.p. gas engine direct connected to 100 kva., 3 phase, 60 cycle, 2300 volt generator; equipment purchased; work by company's forces.*

Fertilizer Plants

Ark., Fort Smith—M. J. Miller, 508 Belle St., and Tony Monguanti, reported, interested in fertilizer plant.

Ark., Little Rock—Farmers Fertilizer Co., capital \$10,000, incorporated; Amos V. Presley.

La., Monroe—I. G. Dyestuff Corp., Frankfurt-on-Main, Germany, reported erect fertilizer plant.

S. C., Columbia—Capital Fertilizer Co. incorporated; C. D. Jordan, W. A. Reynolds, Christopher Fitzsimmons, Jr.

Foundry and Machine Plants

Ga., Columbus—Golden's Foundry & Machine Co., T. E. Golden, Pres., let contract to Batson-Cook Co., West Point, Ga., for plant addition; 5-story, 68x60-ft. pattern storage building, brick walls, reinforced concrete floors and roof, cast iron columns, I-beam floor supports; manufacture grey iron castings, etc.; J. E. Serrine & Co., Archt.-Constr. Engr., Greenville, S. C.*

La., Bossier, Br. of Shreveport—The Products Tank Line, subsidiary of Union Tank Car Co., Hugh Mendel, Gen. Foreman, Baton Rouge, reported, soon begin erection \$50,000 repair shop, construction by company's forces.

Md., Baltimore—L. Boyd & Co., Lewis Boyd, Propr., 706 Light St. plans \$10,000 machine shop, 705 William St., 1-story, brick and steel.

N. C., Wilmington.—Broadfoot Iron Works, Inc., capital \$125,000, chartered; Wm. G. Broadfoot; Robt. E. Tapp, 1920 Princess St., Wilmington.

Gas and Oil Enterprises

Ala., Florence—Consumers Oil Co., Lee Highway, has plant; will install 2000-gal. capacity tank and pumps, later plan erecting two 81,000-gal. storage tanks; Moore-Handley Hardware Co., Ave. A; Birmingham Machine & Foundry Co., 3700 Tenth Ave., and Birmingham Tank Co., 720 Ave. D, all Birmingham, machinery contracts.*

Ark., Camden—Arkansas Railroad Comsn., Little Rock, reported, granted permission to T. J. Caughan to build two pipe lines from Halle, La., to Pine Bluff.

Ark., Paragould—Gulf Refining Co., C. H. Quackenbush, Local Mgr., reported, plans four storage tanks with capacity 65,000 gals.; erect three garages; install electric pumping device; enlarge office building; expend \$10,000.

Ark., Pine Bluff—T. J. Gaughan, Little Rock, reported has permit from Arkansas Railroad Comsn., Little Rock, for two pipe lines from Monroe gas fields, near Halle, La., to Pine Bluff.

Fla., Fort Pierce—Pan-American Petroleum Corp., reported, erect storage station.

Ga., Albany—City voted \$35,000 bonds gas extension. Address The Mayor.

Ga., Savannah—Stacey Mfg. Co., Cincinnati, O., has contract for 2,000,000-cu.-ft. capacity 4-lift gas holder at plant of Savannah Gas Co.; structure involves 1300 tons of steel plates, structural shapes and blue annealed sheets.

Ky., Louisville—Continental Oil Co. increased capital, \$15,000 to \$50,000.

La., Lake Charles—Twin Oil Co., incorporated; Wm. S. Green, 742 Pajo St.

La., Lake Charles—Calcasieu Petroleum Co., Inc., capital \$25,000, incorporated; R. H. Bridges, W. B. Gabbert, Margurite Place; Leon Locke, 808 Ryan St.

La., Vidalia—David Stewart and associates, Natchez, Miss., reported, has contract for installing natural gas plant; \$20,000 available.*

La., Vinton—Hercules Oil Co., capital \$50,000, incorporated; James G. Sutton and J. N. Wetherill, both Vinton; Wm. Lucas, 732 Granger St., Lake Charles.

Md., Havre de Grace—Consolidated Gas, Electric Light & Power Co., Baltimore, will extend lines from Aberdeen to Havre de Grace.

Miss., Amory—T. D. Driscoll, Indianapolis, Ind., reported to begin construction of 4½-in. pipe line from gas fields here; has gas franchise in Amory and Aberdeen.*

Miss., Natchez—Natchez Oil Refining Co., capital \$20,000, incorporated; L. C. Rignour, Linton Ave.; M. P. Phelan.

Miss., Waynesboro—Gulf Refining Co., reported, erect 4 storage tanks, warehouse and garages.

Mo., Cape Girardeau—Missouri Utilities

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Co., reported, let contract to Stacey Brothers Construction Co., Cincinnati, O., for \$20,000 all-steel gas holder, 100 ft. high, 80 ft. in diam., capacity of 100,000 cu. ft.; double lift type.

Oklahoma—Southwestern Light & Power Co., 40 Exchange Place, New York, reported, acquired Southwestern Gas & Fuel Co. and Chickasha Gas & Electric Co., serving Lawton, Duncan, Comanche, Marlow, Altus and Temple, etc.

Oklahoma—Cromwell—Oklahoma Pipe Line Co., Muskogee, advises, company is constructing 47 miles of pipe line from Council Hill to Cromwell, 10-in. pipe threaded and with couplings; pipe furnished by Republic Iron and Steel Co.; C. L. Clay, Drumright, contractor for stringing pipe; laying and ditching by company's forces; line is being constructed to handle production from Seminole District and will give additional outlet of 30,000 bbls. per day; ready for service April 10.

Tenn. Memphis—Tippah Oil and Gas Co., incorporated; H. W. Stagler, Porter Bldg.

Tex., Amarillo—Henrietta Drilling Co., capital \$75,000, incorporated; M. H. Cox, G. M. Bull.

Tex., Amarillo—Texas Plains Gas and Fuel Co., Wichita, Kansas, reported, let contract to Hope Engineering and Supply Co., Mount Vernon, Ohio., for digging trenches, laying 22-in. mains and erecting 13 booster stations along 580-mile line from Amarillo to Kansas City, Mo.

Tex., Cisco—Barbre-Hayes-Lowerre, capital \$10,000, incorporated; George Lowerre, Jr., J. J. Butts, J. A. Barbre.

Tex., Coleman—J. J. Foster Drilling Co., capital \$10,000, incorporated; J. S. Rogers, J. J. Foster, W. C. Rausberger.

Tex., Dallas—C. D. Cain Oil Co., capital \$10,000, incorporated; C. D. Cain, Kirby Building.

Tex., Fort Worth—Christmas Oil Corp., incorporated; Burton Christmas, A. J. Burton.

Tex., Fort Worth—Triangle Petroleum Co., capital \$50,000, incorporated; George L. Schmucker, A. S. Dingee, 1008 Prosser St.; A. G. Baldwin.

Tex., Hereford—K-S Oil and Gas Co., capital \$80,000, incorporated; R. M. Dunn.

Tex., San Angelo—George A. Henshaw, Jr., Oklahoma City, Okla., reported organized two companies, George A. Henshaw, Jr., and George A. Henshaw, Jr., Inc., with \$2,000,000 capital each, to develop oil.

Tex., San Antonio—San Antonio Public Service Co. let contract to Stacey Mfg. Co., Cincinnati, O., for extensive repairs to present 500,000-cu.-ft. capacity 3-lift and 2,000,000 cu.-ft. capacity 4-lift gas holders at plant; work to begin next month.

Ice and Cold-Storage Plants

Ala., Birmingham—The McLaughlin Ice Co., East Thomas, contemplates increasing capacity of plant.

D. C., Washington—American Ice Co., Westory Bldg., reported, acquired Washington Ice Co.'s plant, 23d St.; will consolidate; electrically driven, daily capacity 180 tons.

Fla., Hastings—Hastings Power & Ice Co. plans 20 ton ice plant.

Mo., St. Louis—Krey Packing Co., 2100 Bremen Ave., reported, plans installing cold storage and refrigeration plant in proposed building at 6600 N. Broadway; cost about \$750,000.

Oklahoma—Cherokee—Enid Ice and Fuel Co., N. E. Brumbacker, Pres., reported, acquired plant of Alfalfa County Ice Co., probably expend \$10,000 on improvements; operate under name of Alfalfa County Ice Co.

Oklahoma—Lawton—Southwestern Light and Power Co., L. S. Reagan, Ch. Engr., Braniff Bldg., Oklahoma City, advises: "Size of building 66x97x25 ft., 13-in. brick walls with mat, face brick, concrete foundation, concrete roof, Truscon steel windows; one ammonia compressor 14x16; double acting Vilter machine direct connected to 175 h.p. Ideal synchronous motor; tank size, 28 cans wide, 29 cans long; Carbondale ammonia condenser; C. F. Braun & Co., Los Angeles, cooling tower; International Filter Co., Chicago, treating, filtering and neutralizing plant." General contract previously noted.*

S. C., Ninety-Six—Chas. F. Fleming, Pres., Laurens Ice & Cold Storage Co., advises: "We are moving ice plant to Ninety-Six.

to be known as Ninety-Six Ice Co., subsidiary of Laurens Ice & Cold Storage Co.; have building; additional equipment furnished by Armstrong Cork & Insulating Co., 24th St., Pittsburgh, Pa., cork; Allis-Chalmers Mfg. Co., Healey Bldg., Atlanta Ga., pumps and motors; York Mfg. Co., York, Pa., ice-making equipment.*

Tex., Hemphill—Hemphill Ice Co., W. J. McKnight, Mgr., erecting 74x33-ft. plant; wood, concrete and sheet iron, concrete floor, paper and tar roof; install ice machinery, 50 h.p. crude oil engines furnished by Frick Co., Waynesboro, Pa., and Southern Engine and Pump Co.*

Tex., Mount Vernon—East Texas Public Service Co., Marshall, plans \$35,000 cold storage plant, 1-story, 30x40 ft., brick, reinforced concrete; John Carpenter, Archt., 104½ E. Austin St., Marshall.*

Tex., Raymondville—Central Power & Light Co., reported, acquired 10-acre tract along railroad right-of-way; plans icing docks, 750 ft. long, capacity 24 cars.

Tex., San Antonio—Merchants Transfer Co., Franklin Cannady, Pres., 215 Main Ave., reported, plans erecting warehouse between M-K-T Ry. depot and Military Plaza, estimated cost \$2,000,000; plans are for both dry and cold storage.

Tex., Texarkana—Southern Ice and Utilities Co., Dallas, begun construction of \$300,000 ice and cold storage plant; brick, stone, steel and reinforced concrete; electrically operated machinery, 100-ton capacity.

Tex., Winnsboro—East Texas Public Service Co. let contract to Joe Pressler, Marshall, at \$42,000 for ice manufacturing plant; Knox Lee, Gen. Mgr.*

W. Va., Huntington—Huntington Ice Co., Jackson Ave. and Tenth St., capital \$75,000, incorporated; Edward J. Creamer.

Land Development

Ala., Birmingham—Lake Mitchell Development Co., incorporated; J. V. Cook, Lewis Ford and W. W. Sowell.

Ala., Mobile—James K. Glennon & Co., Inc., capital \$50,000, incorporated; James K. Glennon, 205 St. Francis St.

Ark., Fort Smith—City votes April 5 on establishing Roseland Memorial Park Cemetery. Address The Mayor.

Ark., Harrison—R. S. Whitlock, Bentonville, Grand Sec. Odd Fellows, reported, develop 2200 acres for Odd Fellows' resort; build golf course, children's playground, construct lake 1¼ mile long; 100 acres in area.

Fla., Bradenton—Henson Holding Co., capital \$20,000, incorporated; Worth Henson, M. Glenn Henson.

Fla., Coral Gables—City is having plans prepared by Frank M. Button, Landscape Archt., Art Center Bldg., for developing 5-acre park and playground; expend \$100,000 for graded walks, rest rooms, dwelling for matron, several pergolas, tennis course, ball ground, grandstand, gymnasium, etc.; construction by city forces.*

Fla., Daytona Beach—Shaw & Wingate, Inc., capital \$10,000, incorporated; W. B. Shaw, 503 Glenview St., Seabreeze.

Fla., Flagler Beach—Hooper Construction Co., capital \$25,000, incorporated; F. W. Hooper, M. L. Johnson.

Fla., Fort Lauderdale—Chateau Park Corp., E. W. Bebinger, Sec., First Natl. Bank Bldg., Miami, reported increased capital, \$1,500,000 to \$2,000,000.

Fla., Gainesville—Sweetbriar Nurseries, Inc., chartered; Albert W. Sweet, S. L. Scruggs.

Fla., Hollywood—Central Beach Holding Co., incorporated; A. J. Beattie, T. B. Butler.

Fla., Jacksonville—Hus Realtors Co. incorporated; J. B. Dodge, Lutz Realty Bldg.

Fla., Miami—1334 Washington Ave., Inc., chartered; R. J. Whalley, A. F. Dulbs.

Fla., Miami—Norvida Terrace, Inc., chartered; P. J. Weiss, 242 S. W. 10th Ave.

Fla., Miami Beach—Watersedge Realty Co. incorporated; Irving A. Collins, 6011 Pine Tree Dr.

Fla., Milton—H. A. Brosnahan, reported, develop 50 acres in Stasumas and pecans.

Fla., Orlando—Florida Homesite Development Co. incorporated; Lee Hart, E. Livingston St.

Fla., Palm Beach—Pollock Property, Inc., chartered; Edgar D. Ettenheim, Davara Arcade.

Fla., St. Petersburg—Wisconsin Realty Co., incorporated; M. W. Moeller, Anna Lindelle.

Fla., St. Petersburg—Carl Z. Richardson incorporated; Casey Thigpen, 820½ Central Ave., A. D. Whitson.

Fla., Sarasota—Hazen J. Titus Holding Corp., capital \$25,000, incorporated; Hazen J. Titus, C. E. Corrigan.

Fla., Sebring—Peter Frantz, reported, acquired 10 acre grove.

La., Kenner—E. C. Hawkins, Civil Engr., 919 Panola St., New Orleans, reported, making survey for roadways through proposed subdivision.

La., Monroe—Parker Realty Co., capital \$100,000, incorporated; J. P. Parker, Bonair Plantation; Aaron F. Parker.

La., New Orleans—Las Casas Buenas, Inc., capital \$10,000, incorporated; H. B. Turcan, Emmett Young, Charles W. Harris, all 324 Barrone St.

La., New Orleans—Louise Realty Co., Inc., capital \$28,000, chartered; L. P. Ganucheau, 4203 S. Rocheblave St.; Henry N. Boudousquie, 1808 Bayou Rd.

La., New Orleans—Gulf States Realty Co., Inc., purchased 704 acres land from West Orleans Beach Corp., Inc., who will develop it for subdivision; expend \$1,400,000 for streets, city water, sidewalks, electric lights, natural gas, etc.; Neale & Wirth, Landscape Archts., 635 Common St.*

La., Shreveport—City defeated park bonds. See Financial News—Bond Issues Proposed.

Md., Baltimore—Franklin Realty Co., Inc., 110 E. Lexington St.; John F. Weaver, Geo. Janssen, 162 N. Hare St.; Herman F. Ramsel, 3725 Eastern Ave.

Md., Baltimore—Grand Realty Co., Inc., 543 Calvert Bldg., incorporated; Thomas Isehoff, Robert E. Kanode, N. Carter Hammond, all Calvert Bldg.

Md., Riverdale—Prince George's Development Co. incorporated; Edward S. Brashears, James M. Proctor, Max Vollberg.

Miss., Hattiesburg—Holaday Realty Co., capital \$10,000, incorporated; H. R. Holaday, Shelton Ave.; Evelyn Smith.

Miss., Jackson—Jackson Memorial Park, capital \$50,000, incorporated, N. W. Overstreet, Mississippi Fire Bldg.; Charles Scott, P. E. Coe, 1109 Robinson St.

Miss., Terry—Chicama Plantations incorporated; V. T. Davis, John F. Collins.

Mo., Kansas City—J. O. Patterson & Co., Ridge Bldg., incorporated; John E. Patterson, John O. Patterson.

Mo., St. Louis—La Due Terrace Corp., capital \$90,000, incorporated; G. A. Veninga, 307 S. Gore St.; J. W. Rowan, Chemical Bldg.; E. P. Bradley, 6935 Pershing Blvd.

N. C., Asheville—L. B. Jackson, Jackson Bldg., and D. L. Strain, Swannanoa Rd., are having plans prepared by E. S. Draper, Landscape Archt. and City Planner, Charlotte, for development of Oak Park, suburban townsite; 177 acres, 75 acres for parks, mile of industrial track frontage for small manufacturing; grading and improving streets to begin April 1; Humphreys Engineering Co., Engrs., Jackson Bldg.

N. C., Asheville—Beachwood, Inc., capital \$100,000, incorporated; Donald W. Young, Robert S. Gorham.

N. C., Boone—V. E. Ballew, reported, develop subdivision.

N. C., Charlotte—Mecklenburg County Commrs., retained E. S. Draper, Landscape Archt. and Engr., to plan development of grounds around new courthouse, including drives, walks, pools, etc.

N. C., Winston-Salem—Winston Trading Co., Inc., 315½ Main St., incorporated; W. J. Dillon, 2318 Glendale St., Winston-Salem; J. W. Mathis, Elkin.

S. C., Greenville—Jordan Co., capital \$10,000, incorporated; W. M. Jordan, 711 N. Main St., W. M. Jordan, Jr., R. L. Jordan.

Tenn., Carthage—Smith County Land Co., capital \$50,000, incorporated; J. L. Russell, J. C. Davis.

Tenn., Chattanooga—W. J. Mills, 300 Houston St., acquired 20 acres east of Missionary Ridge.

Tex., Dallas—Ferris Land and Cattle Co., capital \$50,000, incorporated; Royal A. Ferris, 4209 Lorraine St.

Tex., Edna—Jackson Land Co., capital \$100,000, incorporated; C. A. Wright.

Tex., Goose Creek—Martin Real Estate Co., capital \$35,000, incorporated; C. F. Martin, J. G. Martin, W. H. Martin.

Tex., Gruver—Gruver Townsite Co., capital \$10,000, incorporated; J. T. Peyton.

Tex., Houston—Sterling Properties, Inc., capital \$2,000,000, incorporated; R. S. Sterling, Post-Dispatch Bldg.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Houston—W. L. Pearson, Post-Dispatch Bldg., acquired 350 acres on Bellaire Blvd.

Tex., Houston—Layshore Realty Co., capital \$18,000, incorporated; R. P. Sheltz, 5720 Harrisburg Rd.

Tex., McAllen—Paul D. Miller and S. A. Morris, developing subdivision, parks and playgrounds.

Tex., Mercedes—American Rio Grande Land and Irrigation Co. and Elsa Townsite Co., Mercedes, John A. Phelan, V. P., are developing town of "Elsa"; Major E. A. Wood, Dallas, City Planner.

Tex., San Antonio—Jefferson Realty Co., capital \$48,000, incorporated; Carl D. Newton, 2604 S. Presa St.; B. R. Webb, 325 W. French Pl.; Wallace Rogers, 216 W. Magnolia St.

Tex., San Antonio—Jefferson Realty Co., capital \$48,000, incorporated; Carl D. Newton, B. R. Webb, 325 W. French Place; Wallace Rogers, 216 W. Magnolia St.

Tex., San Benito—Cinco Realty and Finance Co., incorporated; A. E. Rankin, A. Herbst.

Tex., Tyler—Texas Pecan Nursery, Inc., capital \$250,000, incorporated; R. W. Fair.

Va., Bristol—Wood-Howell Nurseries, reported, acquired 51 acres, develop for nursery.

Va., Norfolk—Plateau Inn Realty Corp., capital \$50,000, incorporated; Otto Welis, L. K. Payne.

Va., Roanoke—Prospect Hills, Inc., J. C. Parrott, Secy. and Mgr., Liberty Trust Bldg., will develop 152 acres for subdivision on Rocky Mount Highway; E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C.

W. Va., Charleston—Highland Park Land Co., incorporated; R. J. Carroll, H. S. Gordon, D. H. Morris.

Lumber Enterprises

Fla., Cross City—Putnam Lumber Co., Milldale St., Jacksonville, let contract through R. L. Cornell, Orlando, Fla., for 3 Erie City 728 h. p. high pressure water tube boilers for mill.

Ga., Waycross—Gillican-Chipley Co. Inc., Whitney Annex, New Orleans, La., reported, leased approximately 250,000 acres known as Sessoms lands, extends from Alaphaha River in Lanier County, through Clinch and Ware County to Waycross; lease also includes steam turpentine still at Cogsdell and other equipment.

Louisiana—Industrial Lumber Co., Elizabeth, La., has contract with State of Louisiana to re-forest 25,000 acres land in Allen Parish.

South Carolina—White Oak Lumber Co., Leon Isaacson, Pres., 33 Rector St., New York City, reported, purchased timber tract in South Carolina, will develop; Gallie Friend, Gen. Mgr.

Okla., Pine Valley—Choctaw Lumber Co., subsidiary of Dierks Lumber & Coal Co., 700 Gates Bldg., Kansas City, Mo., reported, let contract to Yates-American Machine Co., Beloit, Wis., for: Three C-55 electric moulders; three A-66 planer and matchers; one V-54 vertical resaw; three 433 ball-bearing endless bed sanders; four 302 band rip saws; four 311 hand rip saws and several smaller machines, complete band saw and filing equipment.*

Tex., Hartburg—Hartburg Lumber Co. will rebuild burned saw mill.

Tex., Houston—Marine Lumber and Tie Co., increased capital, \$200,000 to \$125,000.

W. Va., Weston—Eakin Lumber Co., P. E. Eakin, Pres. advises following regarding erection of plant: "We are building single band mill and resaw, was designed by H. A. Street of Clark Bros. Co. and all equipment purchased from them."*

Mining

Ark., Mufreesboro—Diamond Gravel & Lumber Co. let contract to Cunningham Machine Works, Inc., 1529 Texas Ave., Shreveport, La., for all mechanical equipment for gravel washing and screen plant.

Fla., Leesburg—Lake County Clay Co. let contract through R. L. Cornell, 1306 E. Washington St., Orlando, for pulverized coal equipment for Okahumpka mines.

Mo., Cape Girardeau—Cape Silica Co., reported, acquired old National Mining Co.'s property; establish modern plant to handle clay products; property now being cleared; plans installing \$80,000 clay product mill. Chamber of Commerce wires: "Cape Silica Co. in process of incorporation. \$250,000; incorporators: J. W. Ford, Dr. Dan P. Scott, D. C. Smith, Dr. Fred C. Hamilton, Ed. J.

Taron, all of Kankakee, Ill.; F. X. Bergeron of Bourbonnais, Ill.; Will Bender, Charles Bender of Naperville, Ill.; E. H. Stroud & Co., Designing Engrs., Chicago, Ill.; R. W. Hunt & Co., Chemical Engrs., Chicago, Ill.; company plans first unit to be in operation within 4 months; propose to build mill for preparing various clays and shales in Southeast Missouri for manufacture."

Mo., Carthage—Carthage Marble Corp., K. D. Steadley, Pres., offering \$1,800,000 first mortgage 6½ per cent sinking fund gold bonds, serials "A" through Taylor, Ewart & Co., Inc., 44 Wall St., New York City, and 1012 Baltimore Ave., Kansas, City.*

Mo., Joplin—Herbert A. Mining Co., Benj. Schnierle, Huron Bldg., Kansas City; H. A. Schnierle, Sec.-Mgr.; 20 acres silicate deposits; begin operation about April 15.*

Tex., El Paso—Caballos Development & Mining Co., 402 Republic Bldg., capital \$1,000,000; Victor Ochoa, N. D. Myer, H. L. Birney and others; secured number leases, will develop.

Miscellaneous Construction

Ala., Birmingham—Expenditure of \$1,000,000 planned for expansion Mississippi-Warrior River barge line, construction of warehouse at Birmingham and terminal at Holt; purchase of boats now being rented and acquisition of other craft reported; Maj. Gen. T. Q. Ashburn, Chrmn. and Executive, Inland Waterways Corp., 1016 Munitions Bldg., Washington, D. C.*

Ala., Birmingham—Tunnel—Construction of tunnel through Red Mountain to relieve several grades and curves on Montgomery Highway considered; Birmingham City Comsn., City of Homewood and State Highway Engr. interested.

Fla., Flagler Beach—Pier—City has \$75,000 available for erection ocean pier. Address City Clerk.

Fla., Ft. Lauderdale—City received bid from Tropical Dredging Co. at \$2,571,217 for construction of north half Fort Lauderdale unit of proposed harbor Lake Mabel; work includes construction moles, jetties, bulkheads, channel and basins, etc.; Geo. B. Hills Co., Const. Engr., Liggett Bldg., Jacksonville.

Fla., Hollywood—City Comsn. received bid from Tropical Dredging Co. at \$2,432,978 for south half or Hollywood section of proposed harbor at Lake Mabel; Geo. B. Hills Co., Const. Engr., Jacksonville.

Fla., Jacksonville—Bulkhead, etc.—City retained Col. Gilbert A. Youngberg, 2609 Herschell St. and Joseph E. Craig, Engrs., to prepare plans for improving McCoy's creek, etc.

Fla., Miami Beach—Bulkhead—City Council received low bid from G. O. Reed, Inc., Fifth St., at \$32,635, for bulkhead in conjunction with Alton port channel project; C. A. Renshaw, City Mgr.; Ed. R. Neff, City Engr.*

Ga., Augusta—Swimming Pool—Claussen-Lawrence Construction Co., 1473 Greene St., has contract for \$10,000 swimming pool at Augusta Country Club; 40x120-ft., reinforced concrete with special treated finish; bath-house facilities, lockers and showers.*

La., New Orleans—Wharves—Eugene F. Lyons, State Auditor, reported, approved bond issue not to exceed \$3,262,407 for rebuilding Poydras St. wharves. See Financial News—Bonds Issues Proposed.*

Mo., Springfield—Subway—City plans constructing 1000-ft. subway to avoid grade crossing over Frisco tracks on National Ave. north of Commercial St., steel and concrete. Address City Clerk. See Financial News—Bonds Issues Proposed.

Mo., St. Louis—St. Louis Speedway and Fair Assn., J. W. Muir, Director of Finance, Ambassador Bldg., advises: "Plans call for 2 mi. paved brick motor speedway, 60-ft. wide straightway, 70-ft. curves, banked 37 degrees; exhibition and livestock building, containing 310,000 sq. ft. floor space; arena containing 37,500 ft. floor space, seating capacity 20,000 persons, with 12,000 permanent seats; artificial lake with bathing beach and other buildings; Wm. H. and Nelson Cunliff Co., Engrs. and Archts., 410 N. Euclid Ave.*

Tex., Houston—Subway—City received bid from Johnson Construction Co., at \$11,900, for subway under G. H. & S. A. Ry. tracks at Ave. S., J. C. McVea, Engr.*

Miscellaneous Enterprises

Ala., Birmingham—A. G. Roberts, 1510 Alois Ave., let contract to Geo. Hansen, 734 Owenton Ave., for \$10,000 laundry, 15th St., 1-story, 75x140-ft., brick, tar and gravel roof.

Ala., Birmingham—W. H. Pattie, Contr., 1566 N. 23rd St., erecting \$10,000 storage building at N. 28th Place and 29th Ave.,

North Birmingham, brick and steel, concrete floor; used for storage building machinery.

Ala., Birmingham—E. D. Dewitt, formerly Gen. Mgr. of New York Herald, reported, acquired Birmingham Age-Herald; will publish.

Ala., Gadsden—Gadsden Times Publishing Co., W. S. Muss, B. H. Mooney and T. B. Goodwin, Owners, acquired The Gadsden Times; will edit.

Ala., Huntsville—Huntsville Daily Times receives bids March 23 for 10-story building; cost \$300,000 to \$500,000; printing section, stores and offices; R. H. Hunt Co., Archts., James Bldg., Chattanooga, Tenn.; contract for foundation and framing previously let to Earl Cline, Birmingham, Ala. (See Buildings Proposed—Bank and Office).*

Ala., Tuscaloosa—City plans installing fire fighting equipment. Address City Clerk.

Ala., Tuscaloosa—Dairy—W. A. Berman, reported, leased Belview plantation, develop dairy.

Ark., Fort Smith—Harding Glass Co., North 11th St., plans \$75,000 addition for storage purposes.

Ark., Little Rock—Preserves, etc.—Dixie Food Products Co., 4723 Asher Ave., reported, plans enlarging plant, install additional equipment, increasing capacity.

D. C., Washington—Central Floral Co., capital \$25,000, incorporated; W. T. Gnash, Stephen J. Gnash, 4 Sixth St. N. E.; Grace Longfellow, 225 H. St. N. W.

Fla., Bartow—Bartow Steam Laundry, Ira O. Wilson, Mgr., 210 E. Church St., has 40x60-ft. plant, stone, concrete floors, asphalt roof; move machinery from old cleaning plant into new building.*

Fla., Bradenton—Merchandise—Carls Stores, Inc., capital \$15,000, chartered; Worth Henson, Carl Henson.

Fla., Coral Gables—Hotel Antilla Co., incorporated; Geo. W. Hopkins, 2418 Plaza Augustine.

Fla., Fort Lauderdale—Dollar Cleaners, Inc., chartered; Harry S. Bach, H. P. Young.

Fla., Gainesville—City let contract to Gamewell Fire Alarm Telegraph Co., Newton Upper Falls, Mass., for new fire alarm system; cost about \$20,000.

Fla., Hollywood—Southern States Roofing and Supply Co. incorporated; A. E. Doll, Frank H. Baker.

Fla., Jacksonville—Disinfectants—Tejon Manufacturing Co., Inc., chartered; B. M. Hulsh, Julian E. Ross, R. R. Hulsh.

Fla., Ocala—Ocala Les-Go Bottling Co., incorporated; R. C. Black, J. C. Poppell.

Fla., Orlando—Osceola Hotel Corp., capital \$150,000, chartered; E. M. Granger, Jr.; James J. Cahill.

Fla., Orlando—Progressive Laundry Co., 13 N. Terry St., purchased steam power plant through R. L. Cornell; equipment installed.

Fla., Pensacola—L. W. Hardy, Escambia County Commr., Dist. No. 4, plans expending about \$100,000 on establishing cold storage plant and creamery want to correspond with Engineer familiar with this work. See Want Section—Machinery and Supplies.

Fla., St. Petersburg—Restaurants—Homestead Tea Rooms, Inc., chartered; Mary A. Miller, Grace D. Rooney, Edith N. Dobbs.

Fla., Stuart—R. J. Bell, reported, plans establishing plant, Hillcrest and Lincoln Ave., 100x200 ft.; manufacture patented "Bell's Drainwell System."

Fla., Tampa—Southern Inclinator Co. incorporated; F. W. Brown, 206 E. Madison St.

Fla., Tampa—Dixie Damp Wash Laundry Co., W. Orient St., let contract through R. L. Cornell, 1306 E. Washington St., Orlando, for pulverized coal equipment for power plant.

Fla., Tampa—Vogue Dry Cleaners, Howard and Morrison Ave., reported, plan \$10,000 addition, 2-story, 75x50-ft., brick and concrete; install complete equipment.

Fla., West Palm Beach—Palm Beach Times Publishing Corp. chartered; L. R. Baker, Citizens' Bank Bldg.

Ga., Brunswick—Sea Islands Supply & Construction Co., capital \$50,000, incorporated; Howard B. Coffin, First Natl. Bank Bldg., Detroit, Mich.; James Baird, New York City.

Ga., Macon—Smith's, Inc., capital \$25,000, chartered; Edgar B. Smith, Mrs. Frances Smith, J. S. Barrer; manufacture Smith's Candy Corn.

Ga., Montezuma—Jule W. Felton, reported, acquired The Montezuma Georgian, will edit.

Ga., Tifton—Americus Ice Cream and Creamery Co., Americus, Ga., reported, establish ice cream factory (branch plant).

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

- Ga., Waycross—See Lumber Enterprises.
- Ky., Ashland—Shirts, etc.—Leonard Manufacturing Co., Arthur Jaffe, Propr., reported, plans improvements to plant at Geiger Crossing, probably erect second story, install additional equipment.
- Ky., London—London Utilities Co., capital \$40,000, incorporated; E. S. Mayes, Springfield; R. H. Morris and J. G. White, 29 S. La Salle St., Chicago.
- Ky., Louisville—Printing Dies, etc.—Schmuts Manufacturing Co., 1204 W. Main St., let contract to The Austin Co., Cleveland, Ohio, for \$45,000 plant; 90x195 ft., steel, concrete and brick, concrete floor, composition roof; all materials and additional machinery purchased; work under way; manufacturers bag printing machines, plates and inks for same, also printing dies of all kinds.*
- Ky., Paducah—Gilliam Co., Cleve Gilliam, will establish candy factory.
- La., Monroe—Eason Transfer & Storage Co., 126 Jackson St., capital \$10,000, incorporated; Frank C. Eason.
- La., Monroe—Southern Millinery Co., Inc., capital \$10,000, chartered; E. G. Sugar, 121 N. Second St.
- La., New Orleans—Superior Cabinet Co., Inc., capital \$15,000, chartered; Emile Jorda, 6122 Catina St.
- La., New Orleans—Broadway Scrap and Material Co., Inc., capital \$25,000, chartered; Sidney Frank, 1403 Broadway; Murray M. Smith, Ariel Frank.
- La., Shreveport—Medical Arts Building Co., Inc., capital \$350,000, chartered; J. Benson, 502 Atkins St.; M. M. Benson, L. G. Benson.
- La., Shreveport—Shreveport Syrup Co., Inc., capital \$27,000, chartered; J. B. Nabors, Sec., Mansfield, La.
- La., Pleasant Hill—Pleasant Hill Soap Co., Inc., capital \$20,000, chartered; Lucien Greathouse, Pres.; J. W. Walker, Sec.
- Md., Baltimore—R. and W. Hata Co., Inc., Industrial Bldg., capital \$40,000, chartered; Charles Wimpfeimer, 2613 Liberty Heights Ave.; Wm. A. Goodhart, Title Bldg.
- Md., Baltimore—Bakers' Supplies, etc.—Robert A. Walter Co., Inc., 224 N. Pearl St., chartered; Raymond J. Brady, Robert A. Walter, 202 N. Greene St.; John H. Elliott, Garrett Bldg.
- Md., Baltimore—Atlantic Advertising Service, Inc., Morris Bldg., chartered; Edgar F. Reibetanz, Citizens Natl. Bank Bldg.; Ernest W. Beatty, H. C. Griffin, both Calvert Bldg.
- Md., Baltimore—Shaw Piano Co., 315 N. Howard St., capital \$25,000, chartered; Geo. W. Steiff, Summerfield P. Walker, 3405 Grantley Rd.; Clarence J. Roberts, Calvert Court Apts.
- Md., Baltimore—Eagle Candy Manufacturing Co., 601 S. Smallwood St., capital \$10,000, incorporated; Morris Spector, 404 S. Charles St.; Harry Spector, Philip Union.
- Md., Baltimore—Houchens Remedy Co., Inc., 625 McCabe Ave., chartered; John T. Houchens, Harry E. Goertz, 806 W. Baltimore St.; Daisy Houchens.
- Md., Baltimore—Mead Baking Co., 1107 Alsquith St., let contract to Lorenz Schoenlein & Son, 2906 Parkside Drive, for \$10,000 addition, 1-story, 37x120-ft., brick, slag roof, steam heat.
- Md., Baltimore—Monumental Paper Co., 415 W. Camden St., acquired 4-story and basement building at 304 Hanover St., will remodel.
- Md., Baltimore—Gas Burners, etc.—Amgo Heat Radiating Cone Co., 306 Richmond St., capital \$50,000, incorporated; Abraham M. Goldstone, Brendella Levin.
- Md., Baltimore—E. R. Sanner Transfer Co., Ashland Ave. and Enzor St., capital \$50,000, chartered; Robert E. L. Young, 3 E. Lexington St.; Thomas E. Barrett, Jr., 3007 St. Paul St.; Lillian R. Merson, 2110 Maryland Ave.
- Md., Baltimore—Clothing—Jacob S. Goldsmith & Brother, Inc., 407 N. Gay St., capital \$50,000, chartered; Jacob S. Goldsmith, Malcolm H. Lauchheimer, 111 N. Charles St.
- Md., Baltimore—Leather Goods—Buchheimer Co., 508 S. Ann St., incorporated; Geo. H. Buchheimer, Arthur G. Chamberlain.
- Md., Easton—Engineering—Hardcastle & Forney, Inc., chartered; Edward Hardcastle, Chas. D. Forney, T. Hughlett Henry.
- Md., Hagerstown—Tri-State Electrical Supply Co., Inc., 122 Washington St., capital \$100,000, chartered; Samuel N. Loose, Robert A. Stott, Wm. P. Lane, Jr.
- Md., Salisbury—Mercantile—Del-Mar-Va
- Stores, Inc., capital \$33,300, chartered; Franklin W. Earle, Alex. M. Jackson, S. Luther Ruark.
- Miss., Biloxi—Biloxi Transfer & Storage Co., incorporated; G. Clem Wentzell, Frank Wentzell, W. L. Guice.
- Miss., Ellisville—City plans installing fire fighting equipment. Address City Clerk.
- Miss., Hattiesburg—City Commrs. has bid from The Electric Appliance Co., 410 Canal St., New Orleans, La., for automatic traffic signals.
- Miss., Hattiesburg—American Pickle & Product Co., Cleveland, Ohio, reported, soon let contract for \$100,000 plant; E. C. Heaton & Sons, Archt., 201½ W. Pine St., Hattiesburg.*
- Miss., Moss Point—Mississippi Paper Co., reported, expend about \$20,000 for reforestation of property; plant 10,000 long leaf pine trees initially.
- Miss., Vicksburg—Merchandise—McCutchen & Co., Inc., capital \$150,000, chartered; Ella McC. Raworth, Lucy McC. Butts, Lucy Armstrong.
- Miss., Waynesboro—Laurel Ice & Creamery Co., Laurel, Miss., plans establishing creamery station.
- Mo., Jasper—The Dry Milk Co., P. J. Wurtz, Vice-Pres., 15 Park Row, New York City, reported, let contract to C. A. Dieter Construction Co., 223 W. Third St., Joplin, for plant.*
- Mo., Jefferson City—Star Cleaning & Dyeing Co., Earl E. Ralls, Mgr., 626 E. High St., plans reorganizing company, install additional equipment.
- Mo., Kansas City—Loft—E. A. Hart, reported, plans 4 or 5-story loft building, Eighteenth and Walnut Sts.
- Mo., St. Louis—Finn Trimmed Hat Co., capital \$10,000, incorporated; A. A. Buell, 5614 Waterman St.
- Mo., St. Louis—Art Stone Studio, Inc., capital \$30,000, chartered; R. M. Ritter, 915 Olive St.
- Mo., St. Louis—Kahn Mirror Plate Co., 1512 Clark St., increased capital to \$20,000.
- Mo., St. Louis—Schreiner Marble & Tile Co., capital \$10,000, incorporated; F. Schreiner, M. Schreiner, 700 Leland St.; P. J. Muschong.
- Mo., St. Louis—Advertising—Painted Displays, Inc., capital \$10,500, incorporated; O. Pechman, C. A. Thlen, 1702 Chestnut St.; P. Van Tuyl.
- N. C., Charlotte—Mecklenberg Farmers Federation, Inc., capital \$100,000, chartered; H. G. Ashecraft, Park Rd.; Joe H. Robinson, D. A. Hargett, 604 N. Ninth St.
- N. C., Durham—B. C. Remedy Co. has permit to erect building, Morris and Corporation Sts.
- N. C., Durham—Venable Tobacco Co., Pine and Pettigrew Sts., reported, has permit for \$31,000 factory on Pine St.
- N. C., Enfield—Mercantile—Hight-Young Co., capital \$25,000, incorporated; J. K. Young, Wilson; H. L. Hight, Enfield.
- N. C., Murphy—Murphy Steam Laundry Co., capital \$10,000, incorporated; W. M. Fain, E. E. Adams, E. P. Hawkins.
- Okla., Pauls Valley—W. S. Beesley, Meeker, Okla., reported, establish 100,000 bu. capacity sweet potato curing and storage plant, acquired steel building, 50x158 ft., install furnaces, etc.
- Okla., Tulsa—W. C. Johnson, formerly Ponca City, reported, interested in establishing plant to manufacture patented rotary gas engine.
- S. C., Charleston—Creosoting—J. F. Prettyman & Sons, wire: "Contract for foundation all plant buildings, as well as dredging, awarded to Sanford & Brooks Co., Peoples Bldg., Charleston, and South and Water Sts., Baltimore, Md."*
- Tenn., Clarksville—Clarksville Creamery Co., E. E. Laurent, Pres., will erect creamery, soon let contract, machinery ordered.*
- Tenn., Clarksville—The Clarksville Creamery Co., E. E. Laurent, plans plant, to be in operation by May 1.*
- Tenn., Knoxville—Industrial Construction Co., incorporated; W. M. Ogle, Eastern Ave., Burlington.
- Tenn., Memphis—Corlis-Seabrook Paint Co., 64 S. Second St., increased capital, \$10,000 to \$25,000.
- Tenn., Memphis—Printing, etc.—Hy-rote Corp. of Manufacturers, A. C. Hibbs, V.-Pres., installing plant, 419 S. Main St.; furnish rotogravure sections for various newspapers.
- Tenn., Memphis—Niagara Distributing Co., Lockport, New York, manufacturers of calcium arsenate and calcium arsenate dusting machines, leased warehouse at Tennessee and Nettleton St.; serve cotton growers.
- Tenn., Memphis—Orange Mound Undertaking Co., Inc., capital \$20,000, chartered; W. P. Scott, Charles Jones, F. L. Scott.
- Tenn., Nashville—Polly Inn, capital \$10,000, incorporated; J. W. Overton, J. H. Stetson, John Shinkle.
- Tex., Amarillo—Universal Creamery Co., reported, acquired site E. Tenth and Ross St.; erect cheese and butter plant; A. G. Marshall, Mgr.
- Tex., Amarillo—Edwards Bottling Co., 320 W. Fourth St., let contract to Honeycutt & McDoney, for 2-story, 60x100-ft., building, brick and tile; cost \$15,000.
- Tex., Austin—Joseph's Pharmacy, capital \$18,000, incorporated; Joe Keen, Wm. J. Keen, Leah Ione Joseph.
- Tex., Brownsville—Brownsville Herald, reported, plans erecting \$20,000 building, 2-story, hollow tile, stucco, concrete foundation; Kelwood Co., Archt., Travis Bldg., San Antonio.
- Tex., Eagle Lake—Riverside Irrigation Co., reported, plans complete electrification of plant and system, install additional equipment.
- Tex., Galveston—Purdy's Book Store, capital \$15,000, incorporated; P. H. Purdy, 3823 P. St.
- Tex., Houston—Merchandise—Alexander Co., capital \$20,000, incorporated; O. E. Crausby, H. G. Alexander.
- Tex., Houston—Contractors—W. L. Pearson & Co., Post-Dispatch Bldg., increased capital \$100,000 to \$200,000.
- Tex., Houston—Powers Plastering Co., capital \$50,000, incorporated; J. E. Price, Republic Bldg.
- Tex., Houston—Mading's Drug Stores, Inc., capital \$100,000, chartered; Webb Mading, 1203 Crawford St.
- Tex., Houston—C. C. McDaniel, Publisher, McAllen Daily Press, reported, acquired site, plans newspaper plant.
- Tex., Houston—Port Pickle Co., incorporated; Ben H. Smith, 1811 Harvard St.
- Tex., Houston—Merchandise—Mengen & Sons Co. of Texas, capital \$20,000, incorporated; H. F. Mengen, 1009 Missouri St., Frances Mengen, H. Dittlinger, 2409 Commerce St.
- Tex., Houston—Houston Pedigreed Poultry Farms, Inc., capital \$10,000, chartered; Joe W. Baker, Dr. H. B. Miller, 502½ Anita St.; M. S. Ross.
- Tex., Mexia—American Supply Co., capital \$110,000, incorporated; B. L. Walkup, Albert J. Williams, Gene Conaway.
- Tex., Muleshoe—Muleshoe Elevator, Inc., capital \$10,000, chartered; T. E. Arnold, Laura B. S. Cox, Fannie Arnold.
- Tex., Olney—J. W. Dees Tool Co., capital \$25,000, incorporated; J. W. Dees, L. B. Dees, Pat Fowler.
- Tex., Ranger—Prompt Printing Co., 115 N. Rusk St., plans plant addition, install printing machinery and type, etc.
- Tex., San Angelo—San Angelo Building Co., capital \$25,000, incorporated; Walter E. Yaggy, J. S. Hixson, H. Harte.
- Tex., San Antonio—Drugs—R. B. Carsow & Sons, incorporated; R. B. Carsow, 151 E. Cincinnati St.
- Tex., San Antonio—Brenner Cleaning & Dye Works, 309 E. Nueva St., soon begin construction new plant on Main Ave., 1-story, 50x125-ft., reinforced concrete, hollow tile and brick; Leo M. J. Dielmann, Archt., 306 E. Commerce St.
- Tex., San Antonio—Candy—Duerler Manufacturing Co., 224 W. Commerce St., let contract to A. Vogel & Co., 319 Jones Ave., at \$10,790, to remodel buildings, reinforced concrete and brick; Herff & Jones, Archt., S. A. Loan and Trust Bldg.*
- Tex., San Antonio—Display Projector Manufacturing Co., incorporated; J. G. Arnold, Geo. B. Smith.
- Tex., South Houston—Southern Show Equipment Co., capital \$40,000, incorporated; G. W. Christy, Bert Rutherford.
- Tex., Taylor—Merchandise—Bittick-Ballard Co., capital \$75,000, incorporated; H. A. Bittick, Luke L. Ballard, G. M. Booth.
- Tex., Weatherford—Harvey Stage Line, Inc., capital \$30,000, chartered; Homer Harvey, D. C. Harvey, Mrs. H. Harvey.
- Tex., Wichita Falls—Nafziger Bakery Co., 1007 Travis St., let contract to Robert H. Brown, 406 Perkins-Snyder Bldg., for Baker building, brick, steel, reinforced concrete; cost, including machinery, about \$125,000.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Va., Alexandria—M. Auth Provision Co., Henry J. Auth, Pres., increased capital \$225,000 to \$575,000.

Va., Chillum—Roseland Theatre, Inc., chartered; E. V. Greever, Pres.; F. H. Rector, Sec.

Va., Hillsville—Hillsville Hardware Co., Inc., capital \$25,000, chartered; J. C. Guynn, P. G. Horton, W. L. Gardner.

Va., Norfolk—The Chain Theatres, Inc., capital \$25,000, chartered; J. B. Crockett, W. F. Crockett.

Va., Orange—Orange Hotel Corp., chartered; V. R. Shackelford, A. Stuart Robertson, Anna T. Burgess.

Va., Petersburg—City plans new police and fire alarm system, included in municipal improvements. Address City Clk. See Financial News—Bond Issues Proposed.

Va., Richmond—Paints, etc.—Devos & Reynolds Co., Inc., capital \$15,000, chartered; Irvin G. Craig, Electric Bldg.; L. D. Lynn James R. V. Daniel.

Va., Richmond—York River Terminal Co., Incorporated; Channing M. Ward, 2314-A Grove Ave.; William V. Crump, R. Grayson Dashiell, Mutual Bldg.

Va., Salem—Contractors—Albert Bros., capital \$50,000, chartered; C. A. Albert, Salem; A. P. Albert, Roanoke; W. D. Beasley, Thornburg.

Va., Stephenson—Hotel Drusilla, Inc., capital \$60,000, chartered; G. Edgar Stoutter, Quantico; James A. Jones, Howison.

W. Va., Bluefield—Providence Hospital, 421 Scott St., Incorporated; Dr. C. A. Rogers, Dr. R. A. Pogue.

W. Va., Morgantown—Central Apartments, capital \$100,000, Incorporated; Theodore Delardas, John Batlas.

Motor Cars, Garages, Filling Stations

Ala., Anniston—J. C. Davis has permit for filling station on Fourth and Noble St.

Ala., Birmingham—Birmingham National Garage, Inc., Ed. S. Moore, Pres., 2028 1/2 First Ave. N. reported, plans 7-story, 110x182 1/2-ft., storage garage, on First Ave. between Eighteenth and Nineteenth St.; reinforced concrete, terra cotta front, estimated cost \$750,000; to be operated by National Garage, Inc., 1432 Buhl Bldg., Detroit, Mich.

Ala., Gadsden—Automobile Accessories—Todd Tire & Storage Co., capital \$10,000, Incorporated; Fred M. Todd, Jean B. Todd.

Ark., Little Rock—W. F. Ault, Contr., Moore-Turner Bldg., has permit for \$25,000 service station, Sixth St. and Broadway, for Guenter's Goodyear Service Co., 223 W. Third St., North Little Rock; brick and tile; 100x140-ft., 2-story.

Fla., Ft. Lauderdale—Central Service Station of Lauderdale, Inc., chartered, Geo. W. Tedder, 207 Bryan Court.

Fla., Orlando—Willard Storage Battery Service Station, Inc., chartered; E. C. Moore, 128 Livingston Ave.

Fla., Orlando—The Ward-Leonard Co., reported, plans erecting 40,000 sales building cor. Commercial and Magnolia St.

Fla., St. Augustine—St. Johns Motor Co., San Marco Ave., reported, has permit for garage and service station cor. San Marcos and Ballard Aves.

Ga., Atlanta—Standard Sales & Service Co., subsidiary of Marlin-Rockwell Corp., Jamestown, N. Y., reported, establish sales office and warehouse 253-55 Ivy St.

Ga., Macon—D. H. Adams Motor Co., 652 Third St., capital \$40,000, Incorporated; D. H. Adams, H. P. Persons.

Ga., Savannah—E. A. M. Schroeder, 311 E. Huntingdon St., filed permit for drive-in filling station cor. 39th and W. Broad Sts.

Ky., Louisville—Re-Built Auto Co., capital \$10,000, Incorporated; Willard G. Trimm, 1854 Harvard Dr.; Walter G. Bickle; Wm. Schulman, 337 E. Oak St.

Md., Baltimore—M. P. Moller Motor Co., Inc., Hagerstown, reported, leased building 112-18 S. Eden St.; establish sales and service station.

Md., Baltimore—Maryland Automobile Service Corp., 2 E. Lexington St., chartered; Enoch P. Johnson, 2 E. Lexington St.; Mary G. Ramsey, Geo. B. Burrows, Gaither Bldg.

Md., Bladensburg—Investment Building Garage Co., Inc., chartered; Robert C. Jones, Tracy Bruce, Arthur H. Dey.

Md., Salisbury—Tull-Phoenix Chevrolet Sales Co., Incorporated; Harry T. Phoenix, Homer Kelley, Gertrude Holland.

Md., Sparrows Point—Sparrows Point Nash Motors, Inc., Sparrows Point road and Bran-

nan Ave., capital \$10,000, chartered; Henry C. Eichhorn, Martin T. Burkhouse, 5 Wagner Ave.; E. F. Kelly, 259 Colgate Ave.

Mo., Columbia—J. E. Hatham has contract for \$20,000 garage cor. Tenth and Walnut Sts.

Mo., Kansas City—Automobiles—Ed. S. Michelson, Inc., capital \$100,000, chartered; Ed. S. Michelson, M. L. Friedman, 610 Lathrop Bldg.

Mo., St. Louis—Automobile Parts—Snell Manufacturing Co., capital \$20,000, Incorporated; S. A. Snell, W. C. Hutchinson, 406 Market St.; C. P. Berry, Bank of Commerce Bldg.

Mo., Mexico—Roxana Petroleum Co. erect filling station on W. Monroe St.

N. C., Boone—W. R. Winkler will erect 1-story, 35x70-ft. garage; brick, concrete and wood floors, composition roof; estimated cost \$10,000; open bids about April 15. See Want Section—Machinery and Supplies.*

N. C., Charlotte—Jumbo Sales & Service Co., Incorporated; B. C. Edwards, 302 Summit Ave.

Okla., Oklahoma City—C. M. Dunning Construction Co., 1420 1/2 N. Hudson St., has permit for \$16,000 garage, 108 W. Sixth St.

Tenn., Greenback—Greenback Motor Co., Ira E. Hammonree, plans brick garage.

Tenn., Memphis—Automobile Accessories—J. B. Cook Auto Machine Co., J. B. Cook, 278 Washington St., Owner, acquired site on Washington Ave. and N. Fourth St., erect building.

Tenn., Memphis—International Harvester Co., 22 W. Calhoun St., will occupy building on Eastmoreland Ave. at Pauline St., 1-story, with 22,500 sq. ft. floor space; brick, concrete and steel; use 9000 sq. ft. glass; heated and cooled by electric blower system; Dave Dermon, Builder; W. C. Lester, Archt., both Dermon Bldg.*

Tex., Breckenridge—T. E. Johnson and H. S. Fulwiler let contract to F. A. Sable, 5536 Willis Ave., Dallas, at \$10,790 for garage and office building; 2-story, 100x150-ft., reinforced concrete, brick and steel; Baynard M. Smith Co., Archt., 914 College Ave., Dallas.*

Tex., Brownsville—Automobiles—Jesse Dennett, Inc., plans 2-story, 85x100-ft. building; Page Brothers, Archt.

Tex., Corpus Christi—Cadillac Sales & Service Co. will occupy building to be erected by Blake-Edwards Realty Co., 1-story, 50x144-ft., reinforced concrete; W. J. Thompson, Gen. Contr.; E. K. Ahlers, Archt., 622 Mesquite St.; W. E. Simpson, Structural Engrs., Nat'l. Bank of Commerce Bldg., San Antonio.*

Tex., Dallas—Hart Sales Corp., capital \$20,000, chartered; T. F. Hart, 210 N. Preston St.; A. M. Hart, R. M. Speer.

Tex., Houston—Manford Cadillac Co., C. W. Manford, Pres., Pease and Travis Sts. erecting \$100,000 building, 2-story, fireproof, brick stone finish, plate glass; install ramp; Don Hall Construction Co., Contrs., Cotton Exchange Bldg.

Tex., Houston—R. A. Navarro, 1920 Carr St., let contract to Jas. A. Roberts, 693 Highland St. at \$14,000 for garage and sign shop, 60x85-ft., brick and hollow tile, concrete floor, tar and gravel roof; J. M. Glover, Archt., Bankers Mortgage Bldg.*

Tex., Lagrange—G. M. Chevrolet Co., capital \$20,000, Incorporated; Oscar Grebe, Edward B. Meyer.

Va., Fredericksburg—Yellow Cab Co., Incorporated; W. T. Thompson, V. W. Davenport.

Va., West Point—Hughes Motor Co., Inc., will remodel 2-story, 50x100-ft. building for garage and salesroom; estimated cost \$14,000.*

W. Va., Beckley—Hargrave Motor Co., capital \$25,000, Incorporated; P. L. Hargrave, John Jackson.

W. Va., Spencer—Heck-Boyce Service Co., capital \$50,000, Incorporated; A. R. Boyce, B. F. Heck.

Railways

Ala., Birmingham—The Birmingham Southern Railroad Co. has applied to the Interstate Commerce Commission for authority to build an extension from Ensley to Thomas, Ala., 2 1/2 mi. G. H. Ritchie, Birmingham, is Chief Engr.

Ga., Augusta—Georgia & Florida Railroad Co. has awarded to Winston & Company, Inc., of Richmond, Va., the contract to build its extension of 56 mi. from Augusta to Greenwood, S. C. Work to begin Mch. 15. Cost approximately \$2,250,000. It includes a small bridge. H. B. Holmes, Augusta, is Ch. Engr.

Railway Shops and Terminals

Mo., Springfield—St. Louis, San Francisco Ry. Co., F. G. Jonah, Ch. Engr., St. Louis, Mo., will construct 7-stall North Side roundhouse by company's forces.*

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Anniston—Calhoun County plans extending State Highway No. 46 from Piedmont to Georgia State Line. Address County Judge.

Ala., Birmingham—City Comm. plans sidewalks on Fifth Ave., 18th to 26th St.; paving 4 streets, including 80th Place; aggregate cost \$46,975; A. J. Hawkins, City Engr.

Ala., Mobile—City Commrs., Harry T. Hartwell, Mayor, receive bids Apr. 14 for 3900 lin. ft. reinforced concrete culverts, 28,630 sq. yd. 6-in. one course concrete paving, 17,259 lin. ft. concrete curbing, 61,050 sq. yd. asphaltic concrete, 5-in. concrete base, 42,510 lin. ft. concrete curbing, 9350 sq. yd. gutters and roadway; widen and repave streets, 15,077 sq. yd. sheet asphalt or Warrenton bitulithic top surface, 9200 sq. yd. 6-in. concrete base, 4470 lin. ft. concrete curbing, 147,842 sq. yd. sheet asphalt, Warrenton bitulithic or Alabama rock asphalt pavement, 86,293 lin. ft. concrete curbing, 17,770 sq. yd. gutters and driveways; plans from Wright Smith, City Engr.

Ala., Montgomery—State Highway Comm., Montgomery, authorized grading and rebuilding 2 roads totaling about 48 mi. in Montgomery County; Norman Bridge road, Montgomery city limits to Crenshaw County line; Mobile road, intersection Montgomery-Selma road, to Lowndes County line; Div. Engr. A. H. Feagin, in charge of surveys; W. A. McCalla, State Highway Engr.

Ala., Vernon—State Highway Comm., Montgomery, considering 35 mi. road from Vernon, Lamar County, via. Kennedy, to Reform.

Ark., Bentonville—City plans organizing Paving Dist. No. 2 to pave North Main St., North A and intersecting blocks of W. Eighth, Ninth, Tenth and Eleventh Sts. Address City Clk.

Ark., Hot Springs—State Highway Dept., Little Rock, plans improving road to Rammel Dam; Dwight Blackwood, Commr.

Ark., Hot Springs—City plans paving remaining unpaved streets in South Hot Springs. Address City Clk.

Ark., Little Rock—Street Improvement Dist. No. 448, C. U. Harrison, Commr., 1614 W. Tenth St., receives bids soon for about 6753 sq. yd. asphalt surfacing on present base; V. P. Knott, Engr., 407 Home Insurance Bldg.

Fla., Clearwater—City, Chas. F. Mason, Mgr., receives bids Apr. 4 for 58,500 sq. yd. reinforced concrete pavement, 2000 lin. ft. concrete curb and gutter, 4800 sq. yd. concrete sidewalks, 1300 lin. ft. 12 to 24 in. storm sewers on Clearwater Harbor Causeway and adjoining properties; plans from City Engr.

Fla., Cross City—Dixie County Commrs. plan county's part of Gulf Coast Highway; \$300,000 available; considering plans for concrete and steel bridge on Gulf Coast Highway, across mouth of Suwannee River, approximate cost over \$1,000,000.

Fla., Green Cove Springs—City, H. W. McLeod, Ch. Clk., receives bids Mar. 18 for 43,500 sq. yd. brick, concrete or limestone street paving, 31,000 lin. ft. flush curbing, 22,000 cu. yd. dirt; estimated cost \$230,000; O. L. Brandenburger, City Engr.

Fla., Inverness—Citrus County Commrs. plan 4 roads: Inverness-Rutland Bridge road, Floral City-Weed's Landing, Crystal River-Homosassa, Red Level to Dunnellon; probably receive bids at early date.

Fla., Jacksonville—City plans widening and improving 9 highways, including Main and Beaver Sts., cost \$2,000,000, to extend over period of four years; W. E. Shedd, City Engr. See Financial News—Bond Issues Proposed.

Fla., Key West—Monroe County Commrs. plans completing road work, including county's link of Tamiami Trail, and minor bridge work in Overseas highway, connecting Key West with mainland, cost \$650,000. See Financial News—Bond Issues Proposed.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., Kissimmee—Osceola County Comm. plans grading and repairing 4 mi. Holopaw Rd. to Kissimmee-Melbourne Highway.

Fla., Mayo—LaFayette County Commrs., Cullen W. Edwards, Clk., plan Road 5-A, from Taylor County line through Mayo to Suwanee County line, at Bradford; cost \$250,000.

Fla., Orlando—City, J. A. Stinson, Clk., received low bid from Southern Clay Manufacturing Co. on vitrified brick, and Langston Construction Co., 110 E. Central St., Orlando, on asphalt concrete, for grading, curbing and draining in Adair and Marka Dists.*

Fla., Tampa—City Comm. plans paving Morrison Ave. along south boundary of Beach Park.

Fla., Tampa—City Comm. plans paving twenty streets and sections of streets, including Emma, Orient Sts., Ridge and Ohio Aves.

Ga., Albany—Municipal Improvement—City plans street improvement, cost \$20,000. Address City Clk. See Financial News—Bond Issues Proposed.*

Ga., Brunswick—State Highway Dept., East Point, plans letting contract in April for asphalt surface on highway between Everett City and Sterling.

Ga., Columbus—City, H. B. Crawford, Mgr., plans graveling 2 blocks 13th St.; later to hard surface with bituminous type; George N. Mitcham, City Engr.

Ga., Dawson—State Highway Dept., Atlanta, receives bids Apr. 8 for about 4 mi. 18-ft. concrete or mixed asphalt, Florida Short Route from southern city limits of Dawson, south; estimated cost \$100,000; J. H. Holder, Chmn.*

Ga., Dublin—State Highway Dept., East Point, receives bids in April for 8 mi. road, between Dublin, Laurens County, and Wilkerson County line.

Ga., Sparta—Hancock County Commrs. plan road building, including county sector of Jacksonville-Detroit Highway, from Greene County line to Sparta.

Ga., Sylvester—Worth County plans county's part Moultrie-Sylvester road. Address County Commrs.

Ga., Waycross—City, F. D. Hereford, Mayor, plans 29 additional blocks of paving, 5-in. concrete base, asphalt top surface, including McDonald St., Lee Ave.

Kentucky—State Highway Comm., Frankfort, receives bids April 14 to surface treat 37 roads: Todd County—Group 1, 4.3 mi. 14-ft. Fairview-Elkton; Logan County—Group 1, 5.634 mi. 14-ft. Russellville-Morgantown; 5 mi. Russellville-Clarksville; Warren County—Group 1, 8.5 mi. 18-ft. Bowling Green-Bear Wallow; Nelson County—Group 2, 6 mi. 16-ft. Bardstown-Hodgenville; 3 mi. 14-ft. Bardstown-Springfield; 10 mi. 14-ft. Bardstown-Springfield; 10.05 mi. 14-ft. Bloomfield-Lawrenceburg; Washington County—Group 2, 2.55 mi. 16-ft. Springfield-Bardstown; Jefferson County—Group 3, 10 mi. 14 and 18-ft. Louisville-Taylorville; 8.7 mi. 20-ft. Louisville-Shelbyville; Shelby County—Group 4, 7 mi. 14-ft. Shelbyville-Eminence. In Henry County—Group 4, 6.7 mi. 12-ft. Campbellsburg-Newcastle; Ballatin County—Group 4, 2.8 mi. 14-ft. Warsaw-Sparta; Scott County—Group 4, 15.5 mi. 15 and 18-ft. Georgetown-Owenton; Franklin County—Group 4, 6.8 mi. 14-ft. Frankfort-Georgetown; Campbell County—Group 5, 8 mi. 12-ft. Alexandria-Augusta; Pendleton County—Group 5, 5.3 mi. 14-ft. Williamstown-Falmouth; Harrison County—Group 6, 2.3 mi. 14-ft. Cynthiana-Georgetown; 5.6 mi. 16-ft. Cynthiana-Paris; Nicholas County—Group 6, 4.9 mi. 16-ft. Paris-Maysville; 2.2 mi. 16-ft. Paris-Carlisle; Montgomery County—Group 6, 3.37 mi. 14 and 16-ft. Mt. Sterling-Frenchburg; 9-14 mi. 14 and 18-ft. Mt. Sterling-Paris; Madison County—Group 7, 5.4 mi. 14-ft. Richmond-Irvine. In Mercer County—Group 7, 5 mi. 16-ft. Harrodsburg-Lexington; Lincoln County—Group 7, 5.14 mi. 16-ft. Stanford-Danville; Rockcastle County—Group 7, 7.05 mi. 14-ft. Mt. Vernon-Berea; Boyle County—Group 7, 8.63 mi. 16-ft. Danville-Perryville; 1-3 mi. 16-ft. Danville-Burgin; 8 mi. 18-ft. Danville-Lebanon; Pulaski County—Group 8, 12 mi. 14-ft. Somerset-Stanford; McCreary County—Group 8, 10.09 mi. 16 and 20-ft. Somerset-Whitley City-Tenn. State line; Whitley County—Group 9, 7.31 mi. 14-ft. Corbin-Williamsburg; Bell County—Group 9, 2.13 mi. 16-ft. Middlesboro-Cumberland; 10.5 mi. 16-ft. Pineville-Middlesboro; Lewis County—Group 10, 1.4 mi. 14-ft. Vanceboro-Maysville; plans on file and from E. N. Todd, State Highway Engr.

Ky., Harrodsburg—Mercer County Commrs. plan completing about 53 mi. county roads. See Financial News—Bond Issues Proposed.*

Ky., Lexington—City, Maj. W. C. Wilson, Commr. of Public Property, plans repairing 5 streets, including W. Fourth, W. High, and Bryan Station Pike in city limits; White Guyn, City Engr.

La., Baton Rouge—East Baton Rouge Parish Police Jury, F. A. Woods, Sec., plans gravel surfacing Fleming road, along Baton Rouge, Hammond & Eastern Ry., connecting Plank road with Greenville Springs and Brookstown roads.

La., New Orleans—City, A. J. O'Keefe, Mayor, plans widening, connecting and paving 180 mi. streets.

La., Pineville—City receives bids Apr. 5 to pave sidewalks on 6 streets, including Main St., College Blvd.; plans from H. J. Dalgre, Courthouse, Alexandria.

Ky., Paducah—City, J. N. Bailey, Mayor, plans hard-surfacing about 15 streets and rebuilding curbs and gutters, including Fountain Ave., Fifteenth St.

La., Shreveport—City, L. E. Thomas, Mayor, plans street opening and widening, cost \$300,000. See Financial News—Bond Issues Proposed.*

Md., Baltimore—Board of Awards receives bids Mar. 23 to grade, curb and pave with 8510 sq. yd. sheet asphalt on concrete base streets in Cont. No. 388; 6800 sq. yd. cement concrete, concrete base, Cont. No. 389; plans on file; Steuart Purcell, Highways Engr.; H. L. Crozier, Ch. Engr.; Howard W. Jackson, Mayor.

Md., Baltimore—Mayor Howard W. Jackson approved plans to pave Longwood St., Gwynn Falls Parkway to Powhatan Ave.; Steuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.

Md., Baltimore—Board of Awards receives bids Mar. 23 to grade and pave with cement concrete alleys in Cont. No. 123; plans on file; Steuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.; Howard W. Jackson, Mayor.

Md., Baltimore—Board of Awards received low bid from Potts & Callahan, Knickerbocker Bldg., at \$18,840 for 41,000 cu. yd. grading in Cont. No. 385.*

Miss., Gulfport—Harrison County Board of Supvrs. receives bids April 5 for 22,996 lin. ft. of header on Magnolia Highway, Beat 5; plans on file.

Miss., Gulfport—Harrison County Board of Supvrs. plans about 34.7 mi. Warrenite paving and 32 mi. graveling, during 1927; W. S. Hawkins, County Engr.

Miss., Gulfport—Harrison County Board of Supvrs. plans letting contract in Apr. for road from beach at Henderson to ferry at Bay St. Louis; W. S. Hawkins, County Engr.

Miss., Laurel—Jones County Board of Supvrs. receives bids for 2 mi. road, Jackson highway, from corporate limits of Laurel; \$40,000 available.

Miss., McComb—State Highway Comm., Jackson, and Federal Government plan highway from Federal Aid Project No. 95 across McClimb cotton mills lots and north along Broadway.

Miss., Senatobia—Tate County Board of Supvrs. plans Wyatt to Sarah road, east and west through county; Extend hard surface to Thytira, within 5 mi. Marshall County line; hard surface road from Senatobia to Sarah, to Crockett School.

Mo., Huntsville—Randolph County Commrs., W. P. Noel, Clk., plan road building.

Mo., La Plata—City plans paving city square. Address City Clk.

Mo., Poplar Bluff—City, Edgar C. Hammons, Mayor, plans paving Oak, Cynthia and Tenth St.

Mo., Springfield—City Commrs. plan widening Water St., etc.; cost \$75,000.

Mo., Trenton—City plans about 1 mi. street paving. Address City Clk.

N. C., Clyde—City plans 10,000 cu. yd. paving, including Main, Mulberry and Depot; J. C. Grannan, City Engr., 57 Austin Ave., Asheville.

North Carolina—State Highway Comm., Raleigh, receives bids March 29 for 18 road projects and 2 bridges, including 80.2 mi. hard-surfaced, and 65.5 mi. grading and top soil roads, bridge over Green River, Henderson County, and small bridge in Davie County; Mecklenburg County—12.8 mi. Route 26, Charlotte, south; Buncombe County—3.4 mi. Route 20; Wilson, Halifax, Sampson, Columbus, Cumberland, Robeson, Chatham, Franklin, Warren, Hoke, Randolph, Cabarrus, Rowan and Haywood Counties; total cost about \$2,000,000; W. E. Hawkins, State Construction Engr.

N. C., Newton—Catawba County Commrs.,

Charlie Finger, Chmn., plan road building. See Financial News—Bond Issues Proposed.

N. C., Newton—Catawba County Road Board approved plans for 5 mi. oil-treated asphalt hard-surfacing, including 2½ mi. around Hickory Country Club.

N. C., Winston-Salem—Board of Aldermen plans about 6875 ft. paving on Sprague St. and 4000 ft. paving on Stratford road.

Okla., Chandler—Lincoln County Commrs. plan road building. See Financial News—Bond Issues Proposed.

Okla., Enid—Garfield County Commrs. plan about 3¼ mi. permanent surfacing, Meridian Highway, from Enid to Garfield County line.

Okla., Guthrie—State Highway Comm., Oklahoma City, receives bids soon for 22 mi. hard-surfaced State Highway No. 4, from Guthrie, Logan County, to Orlando, on Noble County line.

Okla., Sallisaw—State Highway Comm., Oklahoma City, plans letting contract within 2 weeks to grade and drain road from Vian, Okla., to Fort Smith, Ark.; J. M. Page, Highway Engr.

Okla., Tulsa—City Comm. authorized several blocks concrete walks in Sunset Park Addition; Charles Schultz, City Engr.

Okla., Tulsa—City Comm. considering widening 5 blocks Third St., 36 to 50 ft.

S. C., Charleston—City, Board of Public Service, plans paving roadway of 3 streets, roadway and sidewalks of 15 streets, sidewalks of 5 streets; Joseph, Clk. of Council.

S. C., Chesnee—City plans surfacing street on State Highway No. 10, also Cherokee St., from C. C. & O. tracks to city limits; R. C. White, Engr. for State Highway Dept., directing work.

S. C., York—York County Permanent Road Comm., plans completing 5 roads totaling about 35 mi.: Rock Hill to Chester County line; Clover to North Carolina line; Fort Mill to North Carolina line; Guthrieville, via McConellsville, to Chester County line; Sharon, via, Hickory Grove and Sharon, to Cherokee County line.

Tennessee—Dept. of Highways and Public Works, C. N. Bass, State Highway Commr., Nashville, receives bids Apr. 8 for 5 roads and 37 bridges: Humphreys County—4 bridges over 20-ft. span, State Highway No. 1, between Gorman and Waverly; Meigs County—concrete bridge and approaches over Creek, 4 mi. State Highway, Decatur to Roane County line; Claiborne County—reconstruct steel bridge, State Highway No. 32, over Powell River, between Tazewell and Cumberland Gap; Hawkins County—2 concrete bridges over 20-ft. span, State Highway between Hamblen County line and Greene County line; Houston County—6.3 mi. grading and draining, State Highway No. 13, between point near Erin and Humphreys County line; also 2 bridges over 20-ft. span.

In Weakley County—5 bridges over 20-ft. span, State Highway No. 5, between Gibson County line and Martin; Wayne County—2 concrete bridges and approaches, 3 mi. State Highway No. 47, over Eagles Creek, near Clifton; Anderson County—8 mi. grading, drainage and cement concrete pavement, State Highway No. 9, through Clinton; Hamilton County—4.8 mi. grading, drainage and asphalt concrete surface, cement concrete base, State Highway No. 29, between Valdeau and point near Red Bank; Rutherford County—13 concrete culverts and 4 concrete bridges over 20-ft. span, State Highway No. 10, Bedford County line to Murfreesboro; Obion County—3.2 mi. grading and drainage, Highway No. 3, Dyer County line to Obion; also three 20-ft. span concrete overflow bridges; estimated cost \$2,000,000.

Tenn., Humboldt—City contemplates street improvement in Dists. Nos. 17, 18, 20, 21 and 22. Address City Clk.

Tenn., Jonesboro—Washington County plans improving 6 roads: Johnson City-Kingsport, via Boone's Creek and Gray Station; Johnson-Erwin Highway; rebuild Bluff City section; complete Bluff City-Elizabethton section; complete Erwin to North Carolina State line and on to Asheville. Address County Commrs.

Tenn., Union City—City plans street improvement; cost \$50,000. Address City Clk. See Financial News—Bond Issues Proposed.

Tex., Abilene—Taylor County, Carlos D. Speck, County Judge, plans 6.63 mi. hard surfacing Highway No. 1-A, Abilene to Hamby, estimated cost \$175,000; L. C. McCanlies, County Engr.

Tex., Alice—Jim Wells County, R. R. Mullen, County Judge, plans grading, bridges, limestone base, asphalt surfacing, Highway No. 12-A, from Alice to Duval County line, estimated cost \$245,000.

Tex., Anson—Jones County, Owen Thomas,

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County Judge, plans 9.68 mi. concrete, Highway No. 30, estimated cost \$240,000; J. W. Puckett, County Engr.

Tex., Beaumont—City, Ollie J. Boyd, Mgr., receives bids Mar. 18 to pave 25 streets: 90,090 yd. excavation, 166,480 yd. finishing sub-grade, 91,640 ft. combination curb and gutter, 65 inlets, 129 manholes, 46,000 lin. ft. 6 to 30-in. concrete storm sewers, 146,400 sq. yd. concrete, sheet asphalt, bitulithic or willite paving; R. C. Black, City Engr.*

Tex., Canyon—Randall County plans 18 mi. highway from Canyon to Amarillo, cost \$250,000. Address County Judge. See Financial News—Bond Issues Proposed.

Tex., Carthage—City, J. A. Daniels, Mayor, plans paving square and main streets.

Tex., Cold Springs—San Jacinto County, Wm. McMurray, County Judge, plans 5.87 mi. grading, bridges and gravel surfacing, Highway No. 35, Shepherd to Polk County line, estimated cost \$130,000; J. L. Ross, County Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans paving several streets, including Cherry, Burnet; H. C. Meacham, Mayor; D. L. Lewis, City Engr.

Tex., Groesbeck—Limestone County plans road building in Road Dist. No. 20, cost \$50,000. Address County Commrs.*

Tex., Groesbeck—Limestone County, H. F. Kirby, Judge, plans road improvement in Kirk Dist., cost \$50,000. See Financial News—Bond Issues Proposed.*

Tex., Hallettsville—State Highway Comm., Austin, plans Hallettsville-Sweet Home Highway, Lavaca County, about 7 mi. from Yoakum; \$120,000 available.

Tex., Houston—State Highway Comm., Austin, plans repairing Section No. 2, Galveston-Houston Highway, including road 1½ mi. north of South Houston, connecting with present concrete pavement and section of road from Webster to Galveston County line; D. K. Patton, Div. Engr.

Tex., Houston—City, O. F. Holcombe, Mayor, receives bids March 19 to pave Navigation Blvd., Buffalo St. to point 200 ft. west of Houston Belt and Terminal Ry. tracks and from Wayside Drive to Seventy-seventh St.; plans on file and from City Engr.

Tex., Houston—Harris County, H. L. Washburn, Auditor, plans improving 2 roads, underpass and bridges: 5.3 mi. grading and bridges, Bates section concrete paving, bitulithic or brick surface, Clifton road; 56x 3700-ft. underpass on McCarthy Ave.; estimated cost \$280,000; 20 mi. grading, bridges, macadam base, West Montgomery road from end of present paving to Tom Ball road, including complete bridges to replace wooden structures; estimated cost \$314,000; Howe & Wise, Engrs., Courthouse Bldg.

Tex., Houston—Harris County Commrs., H. L. Washburn, County Auditor, plan receiving bids for 3 roads, totalling 16 mi., asphalt topping: 10 mi. from Humble through Westfield to East Montgomery road; 5 mi. Kuykendahl road, between East Montgomery road and Cypress Creek; 1 mi. Sylvester road at junction with Houston Ave. Extension road; Albert Townsend, County Clk.

Tex., Jefferson—Marion County, Wm. Clark, County Judge, plans 20.55 mi. bituminous macadam, grading and bridges, Highway No. 49, Jefferson to Louisiana State line, estimated cost \$300,000; T. B. Warden, County Engr.

Tex., Kountze—Hardin County, A. L. Bevil, County Judge, plans 2 roads: 1.3 mi. shell and gravel surface, Highway No. 8, through Evadale Bottom, estimated cost \$60,000; 3 mi. shell and gravel surface, Highway No. 40, Hester to Long Station, estimated cost \$60,000.

Tex., Lagrange—Fayette County, Theo. W. Lueders, County Judge, plans 4 mi. grading, bridges and gravel surfacing, Highway No. 71, Lagrange to Halsted, estimated cost \$65,000; L. E. Schiller, County Engr.

Tex., Lagrange—Fayette County, Theo. W. Lueders, County Judge, plans 2 roads: 6 mi. grading, bridges and gravel surfacing, Highway No. 44, Rabba Prairie to Lee County line, estimated cost \$119,500; 8,239 mi. grading, bridges and gravel surfacing, Highway No. 73, Fayetteville to Austin County line, estimated cost \$92,500; R. E. Schiller, County Engr.

Tex., Lefors—Gray County plans highway building, cost \$1,200,000. Address County Commrs.

Tex., Plemons—Hutchinson County Commrs. Court, W. R. Goodwin, Judge, plans pav-

ing highway through county. See Financial News—Bond Issues Proposed.

Tex., San Antonio—City, John W. Tobin, Mayor, plans widening S. Alamo St., Commerce to Martinez; I. Ewig, City Engr.

Tex., Wheeler—Wheeler County plans about 45 mi. highway improvement. Address County Judge. See Financial News—Bond Issues Proposed.

Va., Petersburg—City, Dr. W. F. Drewry, Mgr., plans widening East Bank St., Main St., Blanford to city limits; pave Main St., East Bank to Wythe; pave Bollingbrook Ct., etc. See Financial News—Bond Issues Proposed.*

Va., Portsmouth—Norfolk County Board of Supvrs. plans permanent improvement of county roads; cost \$250,000. See Financial News—Bond Issues Proposed.

Va., Richmond—Richmond Air Junction Assn., Col. S. A. Anderson, Pres., and Aerial League of America, Henry Woodhouse, Pres., 280 Madison Ave., both New York, Co-owners of Richmond Air Junction, acquired 400-ft. wide strip of land, plans boulevard to Air Junction, opening at bend of Williamsburg road, terminating at proposed municipal airport.

W. Va., Charleston—City, W. W. Wertz, Mayor, receives bids Mar. 21 to pave 14 streets totalling about 18,000 sq. yd.; approximate cost \$125,000; H. L. Campbell, City Engr.

W. Va., Huntington—City, Homer L. Yeich, City Commr., receives bids in June to pave Fifth Ave., from First St. to Guyan River; A. B. Maupin, City Engr.*

W. Va., Wheeling—City may receive bids to pave Baltimore St., probably 8 in. concrete. Address City Clk.

Contracts Awarded

Ala., Birmingham—City Comm., let contracts at \$82,682 to pave 7 streets: Southern Roads Co., 104 N. 17th St.; C. A. Shepherd, 316 N. 74th St.; Independent Paving Co., American Trust Bldg.; Dunn Construction Co., Chamber of Commerce Bldg.; Wood-Rucker Construction Co.

Fla., Fort Pierce—Morgan-Hill Paving Co., Woodward Bldg., Birmingham, reported, will be awarded contract to pave Pake View Blvd. along western contour of Savannah Lake, estimated cost \$50,000.

Fla., Jacksonville—Duval County, Frank Brown, Clk., let contract to W. J. Bryson Paving Co., Julia and Adams St., at \$106,000 for 3 roads: No. 1, St. Augustine; No. 2, Atlantic Blvd.; No. 5, Orange Park; 20,630 sq. yd. rock or oyster shell, 9710 sq. yd. brick on sand, or 41,700 sq. yd. bituminous surface; 4970 lin. ft. solid tile curbing, 22,160 lin. ft. inverted curb.*

Fla., Sarasota—Walter J. Bryson Paving Co., 239 W. Adams St., Jacksonville, has contract at \$7573 to pave Fruitville-Madison road, Fruitville to Bee Ridge road.

Fla., St. Andrew—Dean & Yarbrough, Tampa, has contract at about \$100,000 for cement street paving.

Fla., Stuart—Martin County Commrs., H. N. Gaines, Chmn., let contract to Rollins Construction Co., at \$70,000, to hard-surface Warfield Highway, paralleling Seaboard Air Line.

Fla., Saint Cloud—Osceola County Commrs., Kissimmee, let contract to E. A. Freshwater & Sons, St. Petersburg, grading, paving, curbing New York and Carolina Aves., Lake Front Blvd.*

Fla., Tavares—C. R. Scott Co. and Manley Construction Co. have contract for lime-rock base, asphalt surfacing and curbing of Road No. 2, from city limits of Leesburg to Eustis and Tavares; J. A. Hammack, State Road Dept. Engr., Tallahassee.

Fla., West Palm Beach—City Comm., C. S. Bingham, Mgr., let contract to West Construction Co. to pave Fifteenth St., between Sapodilla and Tamarind Ave.

Ga., Cartersville—City, H. C. Nelson, Mayor, let contract to Pittman Construction Co., Atlanta, to pave with vibrolithic concrete Irwin, Johnson and Wall Sts.

Ga., Savannah—City, R. M. Hull, Mayor, let contract to Espey Paving & Contracting Co., 6 E. Bay St., at \$27,327, to pave Habersham St., Estill Ave. to Fifty-fourth St.

Ga., Waycross—City, F. D. Hereford, Mayor, let contract under Baby Bond plan to MacDougald Construction Co., 315 Angler Rd., Atlanta, to pave with 5-in. concrete base, asphalt top surface, 4 streets, including Cherokee Drive, Ewing St.*

La., West Monroe—City, C. C. Bell, Mayor, let contract to pave 5 streets: Gulf Coast Construction Co., Opelousas, \$17,108, rock asphalt surface, Linderman Ave.; \$26,467, rock asphalt surface, Cypress St.; \$12,537, Filhiol St.; J. J. Hamler, 902 Ninth St., Monroe, \$13,249, sheet asphalt surface, Commerce St.; \$34,279, sheet asphalt surface, South Second St.*

Miss., Booneville—City let contract to Southern Roads Co., 104 N. Seventeenth St., Birmingham and Booneville, at \$58,000, for street paving.

Miss., Brookhaven—Board of Aldermen let contract to Dunn Construction Co., Merchants Bank Bldg., Jackson, Miss., and Birmingham, Ala., at \$49,829 for 11 blocks paving, concrete gutters, grading, etc.*

Miss., Clarksdale—City Commrs., John J. Richards, Clk., let contract to M. E. Ellis, at \$5002, for sidewalks, curbs, gutter, etc.

Miss., Durant—Dunn Construction Co. has contract to pave Madison St. Address City Clk.

Miss., Gulfport—Harrison County Board of Supvrs. let contract to Baird-Elmer Construction Co., Nichol Bldg., Nashville, Tenn., at \$43,891 for about 4 mi. machine mixed asphalt penetration surface, old Pass Christian road from Twenty-fifth Ave., Gulfport, to Teagarden road, Handsboro.*

Missouri—State Highway Dept., Jefferson City, let contract for 15 roads and 3 bridges: Greene County—1.682 and 3.828 mi. 18-ft. concrete, Stigall Construction Co., Benton and Talmage Sts., Springfield; Platte County—.671 mi. 30-ft. graded earth, Maxwell Construction Co., Columbus, Kansas; Cedar County—.263 and 1.435 mi. 18-ft. chauts and .085 mi. bridge, Kelly & Underwood, Granby Mo.; Worth County—4.068 mi. 30-ft. graded earth, Mike Haase, St. Joseph; .095 mi. bridge, Pittsburgh-Des Moines Steel Co., Des Moines, Iowa; Gentry County—2.480 and 2.873 mi. 30-ft. graded earth, Mike Haase; .072 mi. bridge, Pittsburgh-Des Moines Steel Co.; Phelps County—.529 mi. graded earth, C. F. Johnson & Sons, Buffalo, Mo.; Linn County—1.220 mi. subsoil treatment, F. T. O'Dell, Hannibal; Macon County—4.383, 4.394, 2.595 and 4.462 mi. subsoil treatment, F. T. O'Dell, Hannibal.*

Mo., Boonville—F. Stretz & Son have contract to pave South St., Fifth to Sixth. Address City Clk.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., let contract for about \$46,683 to pave 17 alleys: Alfred Lewald, Inc., 6025 W. Cabanne St.; Eyermann Construction Co., 1216 S. Grand; Perkinson Bros. Construction Co., 3237 Carter; Skrainka Construction Co., Security Bldg.*

N. C., High Point—City let contract to Atlantic Paving Co., Greensboro, at \$14,611 to pave 2 roads.

Okla., McAlester—Pittsburg County Commrs. let contract to T. R. Dickinson, Harts-horne, for 2970 yd. shale on 5-mi. highway between Blanco and Haileyville.

Okla., Oklahoma City—City, M. Peshek, Jr., Clk., let contract to Western Paving Co., Trades National Bldg., at \$125,999, to pave Nineteenth and Twenty-first Sts.

S. C., Blacksburg—Carolina Construction Co., reported, will be awarded contract for .8 mi. State Highway No. 8 in Blacksburg.

Tex., Abilene—City let contract to West Texas Construction Co., at about \$33,000, for 13 blocks hard base, asphalt topping, and concrete paving.

Tex., Dallas—City, Louis Blaylock, Mayor, let contract to Texas Road Co., Santa Fe Bldg., at about \$18,000, for 3-in. vertical fibre brick paving on 6-in. concrete base, on Broom St.

Tex., Fort Worth—City, O. E. Carr, Mgr., let contracts at about \$140,000 to pave 9 streets, including Fort Worth-Dallas Pike, Scott Ave.; Thurber Construction Co., F. & M. Bldg.; Standard Paving Co., General Construction Co., 403 Cotton Exchange Bldg.

Tex., Plemons—Hutchinson County Commrs. Court, W. R. Goodwin, Judge, let contract to W. L. Pearson, Post-Dispatch Bldg., Houston, at more than \$800,000 to grade highway through Borger and Electric City, crossing county line 5 mi. south of Borger, connecting with Panhandle highway.*

Tex., Wichita Falls—City, W. E. McBroom, Clk., let contract to L. E. Whitham & Co., 1901 Austin St., at about \$27,000 to pave Brooks Ave. with reinforced concrete.*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Anniston—City, W. O. Ward, Clk., reported, install sewers.

Ala., Mobile—City receives bids April 14 for sewers. See Want Section—Bids Asked.

Ala., Montgomery—City, W. L. Jackson, Clk., reported, let contract to Hodgson & Jones, Perry and Pollard Sts., for sewers.

Ala., Muscle Shoals—City, H. W. Sevier, Clk., reported, install sewers.

Ark., Batesville—City, reported, plans \$25,000 sewers in Dists. 1, 2 and 3; E. H. Glenn, Engr.

Ark., Conway—City, reported, soon call for bids for sewer system; W. D. Cole, Chmn. of Board.

D. C., Washington—District Commrs. receive bids March 29 for sewers. See Want Section—Bids Asked.

Fla., Clearwater—See Roads, Streets, Paving.

Fla., Fort Lauderdale—Walter P. Brown has contract for outfall sewer; Solomon, Norcross & Kels, Inc., Consult. Engrs., Sunset Bldg.*

Fla., Haines—See Water Works.

Fla., St. Andrews—City Comsn. let contract to Frank Mozley, Panama City, for sewers.

Fla., St. Cloud—D. H. Whitmer, reported, has contract for storm sewers.*

Fla., Tampa—City, W. Lesley Brown, City Mgr., receives bids March 22 for storm sewers. See Want Section—Bids Asked.

Ga., Acworth—City postponed date of bond election. See Financial News—Bond Issues Proposed.

Ga., Waycross—Wiedeman and Singleton, Inc., (Successors to Paul H. Norcross), 1404 Candler Bldg., Atlanta, employed by city as engineers for sewers and water; will probably vote in April on bonds.*

Ky., Louisville—Comms. of Sewerage plan constructing sewers through Fourth St.

Ky., Owensboro—City, J. R. Beck, Mayor, advises will not build any sewers in 1927, plans expending \$1,000,000 in 1928.*

Ky., Russell—J. E. Strickland, Flatwoods, reported, has contract for sewers.

La., Lake Charles—City, E. L. Gorham, Commr. Streets and Parks, reported, improve drainage and storm sewers.

La., Shreveport—See Water Works.

Md., Baltimore—Colston, Heald & Trall, 100 Broadway, New York, and Keyser Bldg., offering \$300,000, series "O" 4½% bonds of Washington Suburban Sanitary District of Maryland.

Md., Baltimore—Board of Awards let contract to American Brake & Shoe Foundry Co., Fulton St., for manhole castings and inlets; Carolina Foundry Co., 723 S. Carolina St., for lamp posts and manhole covers.

Miss., Ellisville—City votes March 24 on \$10,000 sewer extension bonds. Address The Mayor.

Miss., Natchez—City, Massena L. Culley, Consult. Engr., First National Bank Bldg., reported, let contract to Joe Frank for storm sewers.

Miss., Waynesboro—Town, reported, plans water and sewer extensions; Henry A. Mentz, Consult. Engr., Hammond, La.

Mo., Kansas City—Board of Public Works, M. S. Murray, Director, reported, making preliminary plans for sewers in various streets.

Mo., Springfield—City, reported, votes in April on \$250,000 bonds; Russell & Axon, McDaniels Bldg., Engrs.*

Mo., St. Joseph—City receives bids in March for sewers; W. M. Spann, Engr.

Mo., St. Louis—R. J. Blackburn, 7308 Lyndon Pl., low bidder for sewers, Contr. No. 2732; H. A. Henske, 1504 St. Louis St., Contr. No. 2734; Grant & Meinert, Contr. No. 2735.

Mo., St. Louis—Frazier-Davis Construction Co., Arcade Bldg., reported, low bidder at \$664,925 for Western Mill Creek relief sewer.

Mo., St. Louis—Fred M. Luth, 3000 Shendoah St., and Grant & Meinert, 122 N. Seventh St., reported, low bidders for sewers.

N. C., Charlotte—City let contracts for \$300,000 sewage disposal plant, to McClelland Co., at \$192,158 for general contract; for cast iron pipes and fittings to Glamorgan Pipe and Foundry Co., Upper Basin, Lynchburg, Va., at \$8618; reinforced steel to Knoxville Iron Co., represented by O. Z. Wrenn, Kinney Bldg., at \$7632; sludge collecting mechanism to Link Belt Co., Philadelphia, Pa., at \$82,000; W. M. Platt Sewerage Engr.*

N. C., Huntersville—See Water Works.

Okla., Okeene—City defeated sewer bonds. See Financial News—Bond Issues Proposed.*

Tenn., Paris—City, reported, let contract to Emil S. Hartig, Evansville, Ind., for sewers.

Tex., Arlington—City voted \$30,000 sewer bonds; Jno. B. Hawley, Engr., 403 Cotton Exchange Bldg., Fort Worth.

Tex., Beaumont—See Roads, Streets, Paving.

Tex., Brownsville—See Water Works.

Tex., Corpus Christi—Kirkwood, Wharton & Lee, 456 Main Ave., San Antonio, has contract at \$12,000 for sewers; H. Levinson, City Engr.

Tex., La Grange—City votes April 5 on drainage bonds. Address The Mayor.

Tex., Levelland—City, reported, receives bids after May 1 for water works and sewer system, cost \$500,000; Hawley & Roberts, Engrs., Lubbock.

Tex., Mercedes—City voted \$95,000 bonds for sewers; W. E. Anderson, Engr., San Benito.

Tex., San Antonio—N. A. Salgh & Co., Builders' Exchange Bldg., low bidder for Martinez Bend storm sewer; S. F. Crecellus, Engr.

Va., Norfolk—C. B. Wilkins & Son, low bidders for sewers in Sycamore St., Hanson Ave. and 49th St.

Va., Petersburg—City plans voting on sewer bonds. See Financial News—Bond Issues Proposed.

W. Va., Huntington—City Comsn. authorized construction of fourth unit of Four Pole creek sanitary trunk sewers and approved plans for 2 units of South Side storm relief sewer; preliminary surveys by Barstow & McCurdy, Consult. Engrs., Akron, Ohio.

W. Va., Huntington—City receives bids March 28 for sewers. See Want Section—Bids Asked.

W. Va., Huntington—City Comsn. authorized sanitary sewer on Dundale Ave. and Court St.

Shipbuilding Plants

Fla., Ft. Lauderdale—George L. Craig, Pres., Craig Ship Building Yards, Long Beach, Calif., reported, plans constructing shipbuilding yards at Bay Mabel.

Telephone Systems

D. C., Washington—Samuel J. Prescott Co., 814 Thirteenth St., N. W., let following sub-contracts for Sheperd Exchange building, of Chesapeake and Potomac Telephone Co., Georgia Ave. and Gallatin St.; excavating, J. B. Latimer Co., 1829 Sixteenth St. N. W.; brickwork, E. A. Rule, 3206 K St. N. W.; concrete, Fred Drew Co., 2525 Pennsylvania Ave. N. W.; stone work, Samuel Miller & Co., 23 N. St. N. E.; electrical work, Howard P. Foley, 2010 Eye St. N. W.; heating, Morris & Eagan, 304 Thirteenth St. N. W.; plumbing, G. and H. Heating Co., 917 H St. N. W.; painting, W. F. and E. L. Smith, 1810 M St. N. W.; plastering, Kraft-Murphy, 2525 Pennsylvania Ave. N. W.; roofing, Warren-Ehret Co., 2625 K St. N. W.; ornamental iron, 315 Thirteenth St. N. W.; steel, Barber & Ross, Eleventh and G St. N. W.; steel erection, McDonald-Lombstroth Co., 1523 L St. N. W.; sheet metal, Mathy Co., 1918 Pennsylvania Ave. N. W.; mill work, Martin Weigand, 451 Maryland Ave. S. W., all Washington, D. C.; door frames, Lawton-Stephens Co., 427 Marcy Ave., Brooklyn, N. Y.; metal windows, Campbell Metal Windows Corp., Hambush and Bush Sts., and ornamental iron, McNeill Ornamental Iron Co., 460 E. Cross St., both Baltimore, Md.; metal doors, Norman-Seton, Inc., Winfield, Long Island.*

Ga., Hahira—Consolidated Telephone Co., Moultrie, Ga., reported, acquired Hahira Telephone System; will operate.

Mo., St. Louis—Southwestern Bell Telephone Co., E. D. Nims, Pres., reported will expend approximately \$37,456,000 during 1917 for extension of telephone facilities in Missouri, Kansas, Oklahoma, Texas and part of Illinois.*

N. C., Lenoir—Southern Bell and Tele-

graph Co., Atlanta, Ga., acquired property of Lenoir Electric Co., owners of local telephone system, including exchange building on W. Boundary St., with all equipment, line from Lenoir to Granite Falls, including exchanges at Sawmills and Hudson; will operate.

Tex., Big Springs—Coahoma Telephone Co., P. L. Fletcher, Mgr., plans building line to (new oil town) Ross City.

Tex., Houston—Southwestern Bell Telephone Co., St. Louis, Mo., reported, plans new exchange on Richmond road at Graustark, building cost about \$200,000 and equipment \$750,000; to relieve Hadley exchange, ready for use in 1929; W. G. Winter, Div Supt.*

Tex., Mission—Rio Grande Valley Telephone Co., Fidelity Union Bldg., Dallas, let contract to J. E. Walsh, Mission, for new telephone building; estimated cost with equipment \$100,000.*

Va., Charlottesville—Palmyra Telephone Co., Geo. E. Walker, Pres., increased capital, \$10,000 to \$25,000.

Va., Scottsville—Scottsville Telephone Co., F. W. Twyman, Sec., increased capital, \$10,000 to \$25,000.

Textile Mills

Ala., Alexander City—Russell Mfg. Co., reported, install 650 looms; manufacture shirtings.*

Ala., Athens—Volunteer Knitting Mills, 33 Williams St., Chattanooga, Tenn., increased capital \$35,000 to \$350,000; acquired Wellman Cotton Mills and auxiliary machinery that will bring spinning capacity to 75,000 lbs. double carded yarn weekly; contracts are being let for additional buildings, giving floor space of 150,000 sq. ft.; daily output 1000 dz. prs. men's union suits.

Ala., Florence—W. M. Richardson is in charge of construction details on underwear plant for Gardiner and Warring Co.'s plant; work started; contract let to Richardson Lumber Co. and Florence Lumber Co.; Robert & Co., Inc., Engrs., Atlanta, Ga.*

Ala., Montgomery—West Boylston Mfg. Co., East Hampton, Mass., reported, establish textile mill.

Ga., LaGrange—Unity Cotton Mills, reported, let contract to A. C. Samford, Shepherd Bldg., Montgomery, Ala., for 1 story, 157x100-ft. mill addition; cast stone trimmings; steel sash, metal doors, 5-ply roof; Robert & Co., Engrs., Bona Allen Bldg., Atlanta.

Ga., Valdosta—Strickland Cotton Mills, reported, expend \$100,000 for improvements, including installation of boilers, water tank.

Ga., Carrollton—Carroll Mills, Inc., let contract to New England Butt Co., Providence, R. I., for braiders.*

Ga., Gainesville—Johnson & Johnson, New Brunswick, N. J., reported, let contract to American Moistening Co., 250 Causeway St., Boston, Mass., for humidifying equipment for plant of Chicopee Mfg. Co.*

Ga., Macon—Bibb Manufacturing Co., reported, let contract to A. C. Samford, Shepherd Bldg., Montgomery, Ala., for enlargement of Mill No. 2 on Hawthorne St.; cost \$50,000.*

Miss., Meridian—D. and W. Hosliery Mill, capital \$15,000, incorporated; R. B. Mitcham, H. C. Webb, 9th Ave.; has building at 901 A St. for mill; have installed 28 machines, later plan enlargement; daily production 1200 prs. hosliery.

N. C., Asheville—Ray Hosliery Mills, capital \$50,000, incorporated; W. Y. Frazier, 16 Arden Rd., Kenilworth; C. A. Ricks, Claude S. Kinsland, Technical Bldg.

N. C., Bolling Springs—W. G. McBrayer, Shelby, reported, acquired Winner Hosliery Mills.

N. C., Burlington—Reading Hosliery Mills, Reading, Pa., reported establish plant.

N. C., Burlington—Earl B. Horner, reported, operate mill.

N. C., Burlington—W. T. Cheatham and R. W. Barnwell have acquired Elmira Cotton Mill, of 12,608 spindles, including all mill equipment for both steam and electric power with own sub-station, 98 dwelling houses and 85 acres land.

N. C., Burlington—Ernest Scott, reported, operate mill on Tucker St.

N. C., Charlotte—The Pinoco Mills, Inc., reported, organized to operate plant of National Fabric Corp., 40 E. 34th St., New York; acquired 100 acres on Mount Holly Rd.; erect mill with 100 Jacquard looms.*

N. C., Charlotte—Mooreville Cotton Mills reported reorganized, J. E. Sherrill, Pres.;

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will issue 5000 shares of prior preferred stock to provide funds for resuming operations, also conversion of common stock with par values of \$100 per share into 30,000 shares of no par value.

S. C., Greenwood—Fiske-Carter Construction Co., Greenville, reported, has contract for addition and engine room for Greenwood Cotton Mills; 75x50 ft., 2 stories, provide space for 5000 spindles; J. E. Sirrine & Co., Engrs., Greenville.

S. C., Spartanburg—Union Buffalo Mills Co., Union, advises: "Have acquired Fairmont Mfg. Company; no improvements or additions contemplated."

S. C., Tupacau—Pelzer Mfg. Co., advises are transferring to Tupacau Mills 184 30-in. looms, putting in their place 200 40-in. looms; doing own work.*

S. C., Ware Shoals—Ware Shoals Mfg. Co., Mill; 304x134 ft.; steel construction; install reported, opens bids March 15 for 5 story 30,000 spindles; cost about \$1,000,000.*

Tex., San Angelo—C. C. Cole and T. Davis, reported, interested in erecting woolen mill; brick and reinforced concrete; cost \$350,000.

Va., Petersburg—George F. Brasfield Co., Inc., South and High Sts., reported, let contract to H. M. Nunnally, for \$10,000, 2-story, brick plant on Canal St., for manufacture tablecloths; S. D. Craig, Archt., Natl. Bank Bldg.

W. Va., Parsons—Dorman Mills, capital \$200,000, incorporated; Franklin W. Dorman, New York; reported acquired blanket mills.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Foley—City, reported, let contract to J. B. McCrary & Co., Atlanta, Ga., for water works system.

Ala., Gadsden—City plans installing 23,516 ft. of 10, 8 and 6-in. pipe line in East Gadsden. Address the Mayor.

Ala., Valley Head—Alabama Public Service Comm., Montgomery, reported, approved sale of water works properties of J. W. Ellis and J. N. Winston to N. S. Davenport.

Ark., Corning—City, reported, let contract to F. M. Luth, 3000 Shenandoah St., St. Louis, Mo., for water works system.

Ark., Springdale—City, reported, improve waterworks plant; A. D. Alexander, Engr., Springfield, Mo.*

D. C., Washington—U. S. Engineer Office, 1068 Navy Dept. Bldg., received low bid from Lock Joint Pipe Co., Ampere, N. J., for constructing pipe line for Arlington County Sanitary District at \$58,246.50, increasing water supply for District of Columbia.*

Fla., Gulfport—Town plans expending \$120,000 for water works improvements; 5½ mi. pipe line, 75,000 gal. tank; S. M. Stoner, Town Engr.*

Fla., Haines City—City voted water and sewer bonds. See Financial News—Bond Issues Proposed.

Ga., Waycross—See Sewer Construction.

Ky., Georgetown—Clark, Stewart & Wood, Lexington, are constructing \$22,000 filtration plant; H. K. Bell, Engr., Lexington.

Ky., Eminence—City, W. S. Martin, Mayor, reported, considering water works system.

La., Shreveport—City voted \$250,000 water and sewer bonds. See Financial News—Bond Issues Proposed.

Md., Hagerstown—Northwestern Construction Co. low bidder at \$398,474 for water works plant.

Fla., Indiantown—Boyd & Goforth, 411 Realty Bldg., Charlotte, N. C., has contract at \$90,000 for new filtration plant, pumping station, pipe lines, compressor and tanks, for Land Co. of Florida; construction begin April 1.

Fla., Pensacola—Gray Artesian Well Co., 314 S. Alcaniz St., has contract for well; Pensacola Boiler Works, 16 E. Pine St., furnishing pit; Standard Supply and Hardware Co., Inc., 822 Tchoupitoulas St., New Orleans, La., furnishing screen; Frank Jarrett, City Engr.

Ga., Albany—City voted \$50,000 water works bonds. Address The Mayor.

Miss., Picayune—City receives bids March

23 for water works, cost \$200,000; Henry Mentz, Engr., Hammond, La.*

Miss., Biloxi—City receives bids Mch. 28 for furnishing material and constructing water mains as extension of water works, cost \$60,000; also for constructing 2 pumping station buildings of Spanish mission type with stucco walls, tile roof; Robt. Ruffin, Jr., City Engr.

Miss., Natchez—Water Comsn. received bids April 1 for water tank. See Want Section—Bids Asked.

Mo., Neosho—City votes March 29 on water works bonds. See Financial News—Bond Issues Proposed.

N. C., Highlands—City will issue \$15,000 bonds, water works improvement. Address The Mayor.*

N. C., High Point—J. E. Beaman Construction Co., State Theatre Bldg., Raleigh, reported low bidder for addition to water purification plant.

N. C., Huntersville—Board of Alderman authorized bond issue for water works and sewer. See Financial News—Bond Issues Proposed.

N. C., Kinston—City let contract to W. P. Rose, Goldsboro, at \$27,575 for reservoir, 75x150 ft., 10 ft. deep; Gladding Engineering Co., Engrs., Wilson.*

N. C., Raleigh—R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, has contract for seven miles of 24 and 20-in. pipe line and Worthington Pump and Machine Corp., Wynn Claughton Bldg., Atlanta, Ga., for 2 pumps.*

N. C., Spindale—Town receives bids Mch. 31 for filter plant. See Want Section—Bids Asked.

Tenn., Dayton—City voted water bonds. See Financial News—Bond Issues Proposed.*

Tenn., Henry—City, G. Hamilton, Mayor, voted \$10,000 water and electric light bonds.

Tenn., Memphis—Layne Central Co., Memphis, has contract for turbine pump in connection with extension of water system; E. O. Hallowell, Engr., Leland, Miss.

Tex., Alice—City reported let contract to H. A. Schoenfeld, 516 Peoples St., Corpus Christi, for concrete water tower and tank, with capacity 85,000 gal., reinforced concrete; cost \$10,000.

Tex., Brownsville—City, A. E. Munday, Sec., construct \$100,000 water and \$100,000 sewer extension; plans, etc. from F. H. Williams.*

Tex., Columbus—City votes April 5 on \$55,000 water works bonds. Address The Mayor.

Tex., Corpus Christi—City, J. Milton Moore, Mayor, and Chamber of Commerce, C. F. Drake, Sec., interested in preliminary surveys for adequate supply of potable water; have 2 sites under consideration; probably require "booster" station; also some reservoir impounding, possible treating plant, depending on analyses now being made; date of opening bids not set. See Want Section—Machinery and Supplies.

Tex., Levelland—See Sewer Construction.

Tex., Orange—W. J. Richardson, Water Supt., reported, plans installing deep well pump, electric motor for well No. 4.

Tex., Shamrock—City, F. L. Beasley Sec., let contract to Orman Constructing Co., Pueblo, Colo., at \$21,424 for reservoir; will install 360 H. P. engine from Fairbanks, Morse & Co., Kansas City, Mo.

Va., Clarendon—Board of Supervisors, Arlington County let contract to Lynchburg Iron Co. at \$152,183 for pipe for water mains.

Va., Front Royal—Town, receives bids Mch. 30 for reservoir. See Want Section—Bids Asked.

Va., Petersburg—City plans voting on water works bonds. See Financial News—Bond Issues Proposed.

W. Va., Cedar Grove—Town votes March 24 on \$24,000 water works bonds; W. R. Ramsey, Recorder.

Woodworking Plants

La., Leesville—G. B. Kelly Lumber Co. Little Rock, Ark., reported, plans hardwood mill and spool factory.

N. C., Boone—S. C. Eggers, reported, interested in establishment local furniture factory.

N. C., Columbia—Baskets, Barrels, etc.—Columbia Package Co., capital \$50,000, incorporated; A. B. Houtz, Elizabeth City, has plant, daily output 2000 truck barrels.

N. C., Concord—B. & W. Cabinet Works, Inc., capital \$50,000, chartered; Joe A. Walter, Susan Walter, E. P. Blackwelder.

Tex., Amarillo—Panhandle Sash & Door

Co., 11th and Grant Sts., let contract to Geo. Parr, 117 West Sixth St. for planing mill at 1206 Grant St., 2-story, 150x126 ft., frame and ironclad, concrete foundation, asphalt roof, cost \$40,000; install \$25,000 equipment; Robt. B. Cranford, Archt., 1110 Grant St.

Va., Buchanan—Blue Ridge Furniture Co., Inc., H. L. Williams, Sec., will erect \$20,000 building, 2-story, 50x200 ft., brick, cement floors, install \$25,000 equipment. See Want Section—Machinery and Supplies.*

Va., Louisa—Chairs, etc.—Wm. C. Bibb and associates interested in organizing company to manufacture split bottom chairs of white oak, also shuttle blocks of dogwood and persimmon; install machinery. See Want Section—Machinery and Supplies.

Va., Richmond—Chesterfield Woodworking Co., Route 7, capital \$12,000, incorporated; O. M. Stumpf, Pres., Mutual Bldg.; V. A. Daniels, Sec., both Richmond.

FIRE DAMAGE

Ala., Andalusia—Maddox Garage, in Milligan Bldg., N. Cotton St.

Ark., Hot Springs—Klyman Cleaning Co.'s plant, 325 Malvern Ave.

Ark., McGehee—Graystone Hotel, operated by W. E. Mullikin; loss \$20,000.

Ark., Yarbrough—School building; loss \$30,000. Address School Board.

Fla., Eustis—Geo. E. Lewis' residence.

Fla., Miami—George H. Palmer Co.'s rock plant at Canal locks, Curtis Road; loss \$15,000.

Fla., Tampa—Tampa Mattress Factory, 115 LaSalle St.; loss \$8000.

Ga., Atlanta—T. O. Poole's residence, Cascade Rd.; loss \$70,000.

Ga., Canton—Cherokee County Courthouse; loss \$50,000. Address County Commrs.

Ga., Chula—Store of I. W. Bowen & Son; loss \$12,000.

Ga., Concord—J. F. Maddens Sons store and bank.

Ga., Hawkinsville—Hawkinsville Furniture and Undertaking Co. building, owned by W. L. Joiner; Dispatch and News plant, owned by W. A. Mason; loss \$40,000.

Ga., Macon—B. A. Linenkahl's residence, Troupe St., Mikado Place.

Ga., Quitman—Marie Hotel, Pasco Powell, Prop.

Ga., Waycross—Austin Chapel and parsonage, Ethel St., store and filling station operated by R. H. Howard.

Ga., Waycross—Boys' dormitory at Piedmont Institute.

Ky., Ashland—Dickinson Furniture Co. building on Fourth Ave., owned by Paul Doper; loss \$300,000.

Ky., Carrollton—Warehouse of Gayle Loose Leaf Tobacco Sales Co.; loss \$43,000.

Ky., Covington—Hatfield Coal Co.'s elevators, foot Robbins St., loss \$35,000; Charles Hunt, Supt.

Ky., Danville—Sigma Chi fraternity building at Centre College; owned by Mrs. A. E. Kenney; loss \$20,000.

Ky., Munfordville—Munfordville Flour Mill, J. R. Lawler, Propr., and Stewart & Co.'s motor oil warehouse; loss \$25,000.

La., New Orleans—Warehouse of Mintz & Goldblum Furniture Co.; loss \$70,000.

Md., Ashton—Two buildings occupied by Atlantic and Pacific Tea Co., A. B. Beall's mercantile store and post office; loss \$10,000.

Miss., Hollandale—High school Building; loss \$50,000; address Board of Trustees.

Miss., Mound Bayou—M. A. Lee's store and residence and other buildings; loss \$75,000.

Miss., New Augusta—Atty. A. T. L. Watkins' residence.

Mo., Jefferson Barracks—House of Retreats near Jefferson Barracks; loss \$30,000. Address Rev. Thomas S. Bowdern.

Mo., Jerico Springs—Bank of Jerico Springs, store and barber shop; loss \$25,000.

Mo., St. Louis—Charles Theuler Planing Mill Co.'s plant and equipment, Lucky St. and Prairie Ave.; loss \$100,000.

N. C., Dunn—M. Grant Lee's residence near Dunn; loss \$8000 to \$10,000.

N. C., Greensboro—MacGill Sanatorium, Mrs. Laura B. MacGill, Owner; loss \$10,000.

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N. C., Leaksville—Five Forks Mercantile Co.'s building; stock owned by C. P. and R. E. Wall; building by Marshall Field Co.

N. C., New Bern—J. E. Slater's dry lumber shed; loss \$20,000.

N. C., Pilot Mountain—Cafe of Claude Swanson; W. H. Reed's general store; J. H. Lewis Clothing Store; loss \$50,000.

Okla., Vinita—Poultry houses owned by M. R. Kapps.

S. C., Anderson—Mrs. E. J. Pruitt's residence, 112 E. Orr St.; loss \$7000 to \$8000.

S. C., Darlington—D. T. McKeithan, Sr.'s residence, Orange St.

S. C., Rock Hill—Morris Jewelry Co., A. and P. Store, Western Union Telegraph Co., quarters of Benevolent and Protective Order of Elks.

Tenn., Chattanooga—Foy-Ney Co. wholesale building; loss \$25,000.

Tenn., Greenbrier—Restaurant, garage and store of R. B. Overby; garage and lodge hall of A. W. Crum; loss \$20,000.

Tenn., Milan—Paul Chatman's residence near Milan.

Tenn., Union City—Cumberland Presbyterian Church; loss \$20,000.

Tex., Amarillo—Amarillo Hotel annex; address the Propr.

Tex., Anderson—High School building; address School Board.

Tex., Gilmer—R. F. Huffman's residence, Midway community near Gilmer.

Tex., Houston—Robt. Branch's residence, 2605 Rutland St.

Tex., Houston—Apartment house owned by Mrs. J. A. Goggan; loss \$20,000.

Tex., Nacogdoches—Austin Theater building; loss \$10,000. Address the Mgr.

Tex., Nocona—Keene-McMahon Drug Store; J. A. Foshee Dry Goods Store; loss \$12,000.

Tex., Wichita Falls—55,000 bbl. tank of Continental Oil Co. of Texas.

Va., Broadford—Stuart Elswick's flour mill; loss \$7000.

Va., Kendrick—Girls' dormitory of Oak Hill Academy, Rev. W. A. Hash, principal.

Va., Luray—Two dwellings owned by Frank Grove; feed warehouse, coal yard, stable.

Va., Lynchburg—Krise Bldg., offices.

Va., Petersburg—Barnhart Mercantile Co.'s peanut plant on E. Bank St., loss \$180,000.

Tex., Mercedes—Elsa Townsite Co., John A. Phelan, Vice-Pres.-Gen. Mgr., having plans drawn for 2-story Spanish type bank and postoffice building at new town of Elsa; also have sketches submitted on other property in same block.

Tex., San Antonio—Sid Katz, 122 E. Gramer Place, purchased 200x79-ft. site, Main and Commerce Sts.; plans office building, probably 18 stories, fireproof.

Churches

Ala., Birmingham—McCoy Memorial M. E. Church, South, Dr. Claud Orear, Pastor, soon start work on auditorium as final unit of building; tower, chimes, pipe organ.

Ala., Girard—First Baptist Church, Rev. O. F. Barnes, Pastor, remodel and enlarge church; brick veneer present structure and parsonage, warm-air heat; T. W. & E. O. Smith, Archts., Georgia Home Bldg., Columbus, Ga.

Fla., Coral Gables—Coral Gables Baptist Church has completed plans by Dougherty & Gardner, 507 Cotton States Bldg., for \$300,000 Italian Renaissance type building; stone, steel and stucco, 3 stories, tile roof; seat 2500.*

Fla., Jacksonville—Avondale Methodist Church, Rev. W. J. Churchwell, Pastor, erect \$100,000 building, Talbot and Herschel Sts.

Fla., St. Petersburg—United Liberal Church, G. H. West, Chmn., Bldg. Comm., erect \$65,000 building, Tenth Ave. and Second St., North; interlocking tile and stucco, Spanish tile roof, main auditorium seat 400, gallery 100; Miss Marion I. Manley, Archt., 1303 Brickell Ave., Miami.

Fla., West Palm Beach—First Presbyterian Church, Iris St., Rev. Jos. Britan, Pastor, plans \$400,000 campaign for church, Lake Worth St.; site donated; gift for chimes available from H. A. Weatherby, 414 S. Olive St.; tentative plans by Hiss & Weekes, 18 E. 49th St., New York.

Ga., Albany—First Methodist Church, D. Owens, Chmn., Bldg. Comm., having plans drawn by T. W. and E. O. Smith, Georgia Home Bldg., Columbus and Thomasville, for \$150,000 to \$200,000 church, Sunday school and parsonage.*

Ga., Colquitt—Baptist Church, Rev. D. V. Cason, Pastor, erect brick veneer building.

Ky., Covington—Fort Mitchell Baptist Church, Rev. G. B. Bush, pastor, soon start work on first unit of \$100,000 structure.

La., Algiers, New Orleans—Holy Name of Mary R. C. Church, Rev. E. P. McGrath, Pastor, repair building.

La., Lake Charles—Broad Street Methodist Church, Rev. R. H. Wynn, Pastor, erect \$150,000 building, 2 and 3 stories, Gothic type; auditorium, gallery and choir seat 900; Sunday school 1050; R. S. McCook, Archt., Frank Bldg., Lake Charles; T. L. Brodie, Asso. Archt., Age-Herald Bldg., Birmingham, Ala.*

La., Monroe—Stone Avenue Methodist Church, R. O. Smith, Chmn., Bldg. Comm., plans frame building, 2 stories, 18x27 ft.

La., New Orleans—First Evangelical Church, Rev. A. H. Becker, Pastor, erect brick and stone trim auditorium and gymnasium, 1-story frame and stucco parsonage, janitor's quarters and five-room addition to Sunday school, Carondelet and St. Mary's Sts.; new plumbing and heating in present church; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg.

Md., Frederick—Evangelical Reformed Church, Elias B. Ramsburgh, Chmn., Kemp Hall Comm., plans to remodel and enlarge Kemp Hall building, Market and Church Sts.

Miss., Carthage—Methodist Church opens bids April 4 for brick building; cost \$12,000, 2 stories, 45x70-ft.; furnishings, equipment, etc., \$3000. Address W. M. Jordon. See Want Section—Building Materials and Equipment.*

Miss., Hattiesburg—Broad Street M. E. Church, South, have plans ready about 3 weeks for bids on brick building; cost \$50,000, stone trim, 60x70 ft., asbestos shingle roof, hot air heat, metal lath; R. C. Springer, Archt., Rosenbaum Bldg., Meridian.*

Miss., Iuka—Methodist Church erect Sunday school addition. Address The Pastor.

N. C., Asheville—Methodist Protestant Church, Rev. C. W. Bates, Pastor, enlarge Sunday school; install pipe organ main auditorium.

N. C., Raleigh—Church of Good Shepherd, Rev. H. G. Lane, Rector, plans \$100,000 campaign for parish house, Morgan and McDowell Sts.; Hobart Upjohn, Archt., Grand Central Terminal, New York.

Okla., Ames—Eden Baptist Church, Rev.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Bessemer—Ancient Free and Accepted Masons plan temple.

Ark., Harrison—Independent Order of Odd Fellows, R. S. Whitlock, Grand Sec., Bentonville, plans fireproof hotel, dance pavilion, shopping center and auditorium in connection with development of "Wooded Hills," resort near Harrison; golf course, tennis court, children's playgrounds, etc., planned; also lake 1 1/4 miles long and about 100 acres in area.

Fla., Bradenton—Benevolent Protective Order of Elks erect \$25,000 building; tile and rough face brick, 2 stories.

Fla., Clearwater—Young Men's Christian Assn. advises do not plan building for 6 yrs.*

Fla., West Palm Beach—Palmfellow Lodge No. 43, I. O. O. F., plans \$75,000 building, Sapodilla Ave. near Fern St.

Ga., Blackshear—Blackshear Fraternal Assn. erect \$15,000 fraternal hall and community club room; brick, 2 stories, 35x60 ft., wood and cement floors, concrete foundation, Johns-Manville roof; T. J. Darling, Archt., Waycross, drawing plans.

Ky., Covington—Old Kentucky Lodge, L. O. M. No. 1359, remodel New Moose Temple, 118 W. Fifth St.; bids opened March 16.

La., Logansport—Ancient Free and Accepted Masons erect \$20,000 temple; brick and reinforced concrete, 2 stories, 50x100 ft.

Miss., Yazoo City—Roy Lammons Post No. 7, Main St., plans \$20,000 community auditorium; possibly brick, 2 stories, about 75x200 ft., hardwood floors; furnishings, equipment, etc., \$10,000; architect and engineer not selected.*

Mo., Bonne Terre—Samaritan Lodge erect \$30,000 building; brick and reinforced concrete, 2 stories and basement, 80x45 ft., concrete foundation, composition roof, terra cotta trim, tile; auditorium, lodge rooms; Nolte & Nauman, Archts., 614 Fullerton Bldg., St. Louis.

N. C., Fayetteville—United Daughters of Confederacy raising funds for chapel at Confederate Women's Home.

N. C., Winston-Salem—Independent Order of Odd Fellows remodel building, Trade St.; construct basement, 2 oil burner boilers; first and second floors and basement for store, lodge rooms above; Hall Crews, Archt., 418 Arcadia Ave., ready for bids about 2 weeks.

Okla., Oklahoma City—American Legion, Jack Porter, Commr., erect \$15,000 clubhouse, Eighth St. and Owasso Ave.; brick, 2 stories; stores on first floor; Walter T. Vahlberg and Maurice Jayne, Archts.

Tex., Columbus—Building Comm., Ancient Free and Accepted Masons, W. Kindred, Chmn., erect 2-story Dunfille and stucco temple; bids opened March 14.

Tex., Corpus Christi—Lodge No. 1030, B. P. O. E., receives bids March 29 for fireproof building, Water and Starr Sts.; cost about \$100,000; reinforced concrete and brick, 3

stories, 100x140 ft.; roof garden, gymnasium, bowling alley, billiard and poolroom, locker rooms, shower baths, clubrooms and 24 bachelor quarters; Phelps & De Wees, Archts., Gunter Bldg., San Antonio.*

Tex., San Benito—Sam Jackson Post No. 111, American Legion, erect \$20,000 clubhouse; rein. concrete, stone, tile, stucco, plaster, Spanish type, tile and built-up roof; Harvey P. Smith, Archt.; W. E. Simpson Co., Engr., both Nat. Bank of Commerce Bldg., San Antonio. See Want Section—Building Materials and Equipment.*

Tex., Seymour—Ancient Free and Accepted Masons, O. P. Caldwell, Chmn., Bldg. Comm., probably start work within month on \$35,000 temple, to replace burned structure; fireproof, 2 stories, 50x140 ft.*

Va., Petersburg—Young Men's Christian Assn., Wallace M. Rucker, Gen. Chmn., Finance Comm., raising \$16,000 for repairs and expenses.

Bank and Office

Ala., Huntsville—Huntsville Daily Times receives bids March 23 for 10-story building; cost \$300,000 to \$500,000; reinforced concrete, steel, brick and terra cotta, 150x85 ft.; printing section, stores and offices; R. H. Hunt Co., Archt., James Bldg., Chattanooga, Tenn.; Earl Cline, 1011 N. 16th St., Birmingham, Ala., reported in October as having contract for foundation and framing.*

Fla., Tallahassee—Exchange Bank, Monroe St., open bids in April for fireproof bank and office; cost \$100,000, 5 stories, 40x80 ft., cement and tile floors, gravel roof; Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga. See Want Section—Building Materials and Equipment.*

La., New Orleans—Levert Land Co., receiving bids, date of opening not set, for remodeling 3-story brick building, 727 Poydras St.; new front, concrete and masonry work, steel and iron work, steel sash and transoms, factory work, tiling, marble work, glazing, painting, hardware, paving; Andry & Feitel, Archts., Carondelet Bldg.*

La., New Orleans—Levert Land Co. have plans about ready for bids to remodel 3-story brick building, 727 Poydras St.; plate glass windows, new electrical wiring, plumbing, plastering, etc.; Andry & Feitel, Archts., Carondelet Bldg.*

N. C., Charlotte—Home Real Estate & Guaranty Co., 219 N. Tryon St., remodel 2-story brick building, S. Church St., for offices.

N. C., Greensboro—J. C. Bishop probably start work within 60 days on \$400,000 building, N. Elm and Bishop Sts.; 220x100 ft., 5 stories and medical offices.*

Tex., Albany—Albany National Bank, W. G. Webb, Cashier, erect \$20,000 building; brick, 2 stories, 25x50 ft.; C. H. Griesenbeck, Archt., 607 Construction Bldg.; C. A. Fuess, Contr., 1900 N. St. Paul St., both Dallas. (Lately incorrectly noted under Tex., Abilene.)*

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V. E. Patterson, Pastor, plans building, 9 miles S. E. of Ames.

Okl., Duncan—First Baptist Church erect 3-story Sunday school annex; install pipe organ.

Tenn., Martin—Cumberland Presbyterian Church, E. Main St., probably start work about April 1 on \$12,000 building; use materials in present structure.

Tenn., Nashville—First Lutheran Church, Rev. I. W. Gernert, Pastor, selected Asmus & Clark, Nashville Trust Bldg., as architects for brick and stone building.*

Tenn., Sparta—Church of Christ, Elder Jos. Netherland, Pastor, rebuild burned structure; cost \$25,000.

Tenn., Union City—Cumberland Presbyterian Church, Rev. W. B. Cunningham, Pastor, rebuild structure noted burned at \$20,000 loss.

Tex., Brownsville—First Presbyterian Church, Rev. E. P. Day, Pastor, has low bid at \$59,543 from San Antonio Construction Co., Builders Exchange Bldg., San Antonio, for building; plumbing bid, Putegnat Plumbing Co., \$1597; wiring, Guarantee Electric Co., \$1855; heating, Etie Sheet Metal Works, \$2438, all Brownsville; Kelwood Co., Archt., Travis Bldg., San Antonio.*

Tex., Bryan—First Baptist Church has gift of \$20,000 pipe organ from J. W. Howell for \$60,000 church under construction by O. Martensen; T. J. Galbraith, Archt., Slaughter Bldg., Dallas.*

Tex., Dallas—Protestant Episcopal Church of the Incarnation, Rev. C. S. Snowden, Rector, 2133 N. Harwood St., probably soon have plans completed for \$325,000 building, Carroll and McKinney Aves.; brick, stone, terra cotta, reln. concrete; Lang & Witchell, Archts., 300 American Exchange Bank Bldg.*

Va., East Radford—Radford Presbyterian Church plans \$10,000 addition; 34x34 ft. Address The Pastor.

W. Va., Wheeling—Ohio Valley General Hospital, Dr. H. F. Spillers, Supt., having plans drawn by C. W. Bates, 77 Twelfth St., for \$200,000 nurses' home; details not perfected.*

City and County

Ala., Birmingham—City erect \$15,000 pavilion, Ensley Park, 50x90 ft.

D. C., Washington—District Commission, Room 500, District Bldg., rejected bids for public exhibition building for birds, National Zoological Park.

Fla., Clearwater—City Chas F. Mason, City Mgr., erect fire station, Garden Ave. and Hendrick St.; Ritchie & Wakeling, Archts.

Fla., Dade County—Dade County Board of Commrs., Hugh Peters, Chmn., receives bids April 13 for electric light fixtures and installation for \$2,250,000 courthouses under construction; plans and specifications from A. Ten Eyck Brown, Archt., and Aug. Geiger, Asso. Archt., 1007-08 Huntington Bldg., Miami, or 717-20 Forsyth Bldg., Atlanta, Ga.; L. W. Hancock, Gen. Contr., Louisville Trust Bldg., Louisville, Ky., and 634 N. W. Seventh St., Miami.*

Fla., Gainesville—Board of Commissioners of State Institutions receives bids March 22 at Governor's Office, Tallahassee, for two employees' cottages at Florida Farm Colony; plans and specifications from Rudolph Weaver, Archt., Gainesville.

Fla., Jacksonville—City Commission, Frank H. Owen, Chmn., selected Klutho, Cole & Gates, St. James Bldg., Marsh & Saxelbye, Consolidated Bldg., Roy A. Benjamin, Brisbane Bldg., and Mark & Sheftall, Clark Bldg., to consider municipal auditorium project; \$275,000 available.

Fla., Stuart—Martin County Board of Commrs., H. N. Gaines, Chmn., receives bids March 22 for jail; bids on (a) General construction and alternate proposals; (b) plumbing; (c) electrical work; (d) combined bid on general, including plumbing and electrical work; (e) new steel cell work; (f) steel doors and window grates; (g) refrigerator, range and loose furniture; plans and specifications on file at office Bert D. Keck, Archt., J. R. Pomeroy, County Clk., at Courthouse, both Stuart, and office MacDonough's Building News Office, 317 Price St., Jacksonville.

Ga., Valdosta—City Council, W. N. Holcombe, Chmn., Fire Comm., plans fire station. Address City Council.

Ky., Alexandria—Campbell County Fiscal Court, Wm. C. Buten, Judge, remodel courthouse and erect jail addition; Colonial type, stucco, 4 stone pillars; cells on second floor of jail to accommodate 32; cost \$15,000 to \$20,000; will call for bids.

La., Shreveport—City, L. F. Thomas, Mayor, voted \$500,000 memorial auditorium bonds.

Md., Baltimore—Municipal Art Museum Commission will have plans ready about 10 days for \$1,000,000 art museum, Wyman Park; fireproof, Indiana limestone, 192x199 ft., limestone and cast stone interior, composition roof, marble and terrazzo floors, plaster walls and ceilings in exhibition galleries, steam heat from Johns Hopkins Univ. power plant; John Russell Pope, Archt., 542 Fifth Ave., New York; Henry Vincent Hubbard of Olmstead Bros., Brookline, Mass., Landscape Archt.*

Miss., Jackson—City Commission plans to remodel and enlarge auditorium.

Miss., Quitman—Clarke County Board of Supervisors plans community house, Court-house Square.

Miss., McComb—City, Carey E. McMaster, member, Fire Comm., receiving preliminary sketches from architects for \$12,500 to \$15,000 fire station; brick or semi-fireproof, 1 or 2 stories; lot probably 50x100 ft.*

Miss., Natchez—Adams County defeated \$20,000 bonds for courthouse furniture and for remodeling Chancery Clerk's office into fireproof bldg.; Wm. Stietenroth, Archt.*

Mo., Jefferson City—Cole County, Henry J. Westhues, Circuit Judge, may vote on \$100,000 bonds for jail and \$50,000 for home for aged and infirm.

N. C., Asheville—Buncombe County Board of Commrs., E. M. Lyda, Chmn., receives bids April 5 for 14-story, basement and sub-basement courthouse and jail; cost \$1,300,000; 120x130 ft., steel frame, granite, limestone and marble exterior, ornamental columns on seventh to tenth floors, tile roof, marble, terrazzo and composition floors, metal casement windows, vapor heat, cell work, ventilating, three passenger and one freight elevators, bronze grill, special equipment, garage in basement; furnishings, equipment, etc., \$200,000; plans and specifications from Milburn, Heister & Co., Archts., Hill Bldg., Washington, D. C., or First Nat. Bank Bldg., Durham, N. C.; following contractors estimating: Geo. A. Fuller Co., Munsey Bldg.; Jas. Stewart & Co., Inc., Evans Bldg.; Miller Engineering Co., F. H. Smith Bldg., all Washington, D. C.; Consolidated Engineering Co., St. Paul and Franklin Sts., Baltimore, Md.; Turner Construction Co., 101 Marietta St.; J. W. Cowper Co., Healey Bldg., both Atlanta, Ga.; Angle-Blackford Co., Jefferson Bldg., Greensboro, N. C.; Hunkin-Conkey Construction Co., 24 S. Tryon St.; North-Eastern Construction Co., Commercial Bank Bldg.; Palmer-Spivey Construction Co., 404 S. Tryon, all of Charlotte, N. C.*

N. C., Charlotte—Board of City Commissioners, Edgar Read, Clk., receives bids March 22 for alterations and additions to City Auditorium, E. Fifth and College Sts.; cost about \$150,000; separate bids for heating, plumbing and wiring; plans and specifications from Wm. H. Peeps, Archt., 220 Latta Arcade.*

N. C., Clayton—Board of Aldermen, C. W. Carter, Mayor, receives bids March 22 for municipal building; plumbing, heating and jail fixtures let separately; plans and specifications from Frank B. Simpson, Archt., 209-10 Masonic Temple Bldg., Raleigh.

N. C., Raleigh—North Carolina Legislature authorized issuance of \$40,000 bonds for prison farm.

N. C., Raleigh—General Assembly, A. W. McLean, Gov., passed bill authorizing establishment of farm colony and appropriating \$60,000 for buildings.

S. C., Spartanburg—Commissioners of Public Works, W. R. Dillingham, Chmn., receive bids March 24 for office building, W. Main St., for Spartanburg Water Works, cost \$25,000; 3 stories, 25x100 ft., brick; drawings and specifications on file at office J. Frank Collins, Archt., 703 Andrew-Law Bldg.*

Tex., Dallas—Chas. E. Gross, County Auditor of Dallas County, receives bids March 17 for wrecking brick building on Dallas County Hall of Records lot, 100-ft. front on Elm St.; plans and specifications on file with Lang & Witchell, Archts., American Exchange Bldg.; Hall of Records to cost \$400,000, about 6 stories, 75x160 ft.*

Tex., Weslaco—City votes March 19 on \$30,000 community building; Harry L. Stebins, Archt.*

Va.-Tenn., Bristol—City of Bristol, Tenn., votes April 2 on \$25,000 jail bonds. Address City Council.

Dwellings

Ala., Birmingham—Mrs. Alice I. Levy, 3190 Cliff Rd., erect brick veneer residence,

Linwood Rd., Forrest Park; 2 stories and basement, 50x39 ft., slate roof, 2 tile baths; J. C. Halstead, Archt., 502 Lincoln Life Bldg.

Ala., Birmingham—B. F. Elliott, 2829 N. 12th Ave., erect frame residence, Mountain Brook Estates; 2 stories and basement, 37x52 ft., composition roof, furnace heat; Ben Price, Archt., 1420 Age-Herald Bldg.; bids in.

Ala., Birmingham—Mrs. Alice I. Levy, 3190 Cliff Rd., erect brick veneer residence, Linwood Rd.; 2 stories and basement, 51x39 ft., slate roof, steam heat, two tile baths; J. C. Halstead, Archt., 502 Lincoln Life Bldg.; ready for bids.

Ark., Camden—Preston Hildebrand plans residence, W. Washington St.

Ark., Camden—John Henry Morgan erect brick residence, two stories.

Ashk., Cave City—Tommie Miller, Evening Shade, erect residence.

Ark., England—A. Kaufman plans stucco residence, 2 stories and basement, 56x50 ft., Mission tile roof, oak floors, tile bath, Arcola heat, garage; Clyde A. Ferrell, Archt., 307½ W. Second St., Little Rock; preliminary plans.

Ark., Little Rock—E. B. Bird, 4106 C St., plans \$15,000 brick veneer residence, N. Pine St.; 2 stories and basement, composition shingle roof, oak floors, tile bath, garage.

Ark., El Dorado—J. W. King, Vice-Pres., Exchange Bank and Trust Co., erect \$40,000 residence, Smackover Highway.

Ark., Little Rock—J. D. Walthour, Boyle Bldg., plans three brick veneer and stucco dwellings, N. Pine St.; 1 and 2 stories and basement, composition shingle roof, oak floors, tile baths, garages; total cost about \$30,000.

Ark., Warren—O. O. Axey erect \$50,000 residence; wide siding, 2 stories and basement, 20 rooms, oak floors, tile baths, ornamental plaster, garage and servants' quarters; John P. Almand, Archt., Boyle Bldg., Little Rock.

Fla., Coral Gables, Miami—A. O. Renuart, 411 Mapora Ave., erect \$60,000 residence, 717 N. Greenway Drive; 12 rooms, ornamental tile floors for first story; Harvey B. Taylor, Archt.

Fla., Daytona Beach—A. B. Melville erect \$12,000 residence and garage, S. Peninsula Drive.

Fla., Jacksonville—R. L. Pappy let contract for brick and stucco residence, San Jose Blvd. 10 rooms.

Fla., Miami—J. D. Ramsey, care A. H. Ramsey & Sons, 71 N. W. 11th Terrace, has \$25,000 permit for residence, Avenue Venito and Lisbon St.

Fla., Panama City—A. A. Paine erect \$25,000 residence.

Fla., Parrish—Manatee River Farms, Inc., 535 Central Ave., St. Petersburg, erect 50 additional farm houses along Tamiami Trail and Herberg Rd., Manatee County; plumbing, electric wiring, open fireplaces; total cost about \$125,000.

Fla., Sarasota—Wm. J. Burns, care Burns Detective Agency, 165 Broadway, New York, erect residence, St. Armands Island; Thos. R. Martin, Archt., 312 Main St.

Fla., South Jacksonville, Jacksonville—Paul Schwartz erecting residence, Spring Park.

Ga., Atlanta—Atlanta Realty & Construction Co., 1003 Healey Bldg., erect brick veneer dwelling, 1595 Archer St.; 7 rooms and bath, cost about \$10,000.

Ga., Atlanta—L. W. Driscoll, 1419 Cameron Court, N. E., erect \$18,000 residence, Peachtree-Battle Ave.; brick, stone trim, slate roof, 2 stories, basement and attic; Edovard Clerk, Archt., Bona Allen Bldg.

Ga., Atlanta—W. E. McIntosh, care Brooks-Callaway Co., McGlaron-Bowen Bldg., erect \$10,000 residence, 1064 Clifton Rd.; 2 stories, brick.

Ga., Atlanta—D. McKindlay, 1022 Cleburne St., N. E., erect \$12,000 brick residence, E. Clifton Rd.; 2 stories, brick.

Ga., Atlanta—John H. Whisenant, 811 Highland Ave., N. E., erect \$30,000 residence, E. Lake and Ponce de Leon Aves.; brick, 2 stories.

Ga., Columbus—Mrs. Burrell Cole erect residence, Dinglewood; English type, brick and stucco, 2 stories, 10 rooms, vari-colored graduated slate roof, tile baths, black and white tile hall and kitchen, hardwood floors, steam or warm air heat; John C. Martin, Jr., 1503 Pine Drive, Archt.

Ga., Columbus—Dr. F. L. Cosby, Third Nat'l. Bank Bldg., erect brick or frame resi-

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dence; 6 rooms, hardwood floors, composition shingle roof; T. W. & E. O. Smith, Archts., Georgia Home Bldg.

Ga., Columbus—Leon Cunningham erect \$10,000 residence, Eberhart Ave.; brick veneer, composition shingle roof, 1 story, tile porches and baths, hardwood floors, warm air heat; John C. Martin, Jr., Archt., 1503 Pine Drive.

Ga., Columbus—Misses Agnes and Margaret Harrison erect English type residence, Dinglewood; 1 story, clinker and stucco, vari-colored composition shingle roof, hardwood floors, tile baths, studio in basement; John C. Martin, Jr., Archt., 1503 Pine Drive.

Ga., Columbus—John P. Illges, 1425 Third St., erect \$12,000 country residence, Green Island Hills; native stone veneer, 1 story, vari-colored graduated slate roof, fireplaces; John C. Martin, Jr., Archt., 1503 Pine Drive.

Ga., Columbus—C. S. Sparkman, care Seaboard Airline Rwy., erect residence, Dimon Circle; brick, 1½ stories, tile baths, porches and terraces, asbestos shingle roof, steam heat; T. W. & E. O. Smith, Archts., Georgia Home Bldg.

Ga., Lakemont—Mr. Bellenger erect \$50,000 residence; Felch & Southwell, Archts., Haas-Howell Bldg., Atlanta.

Ga., Savannah—F. R. Gordon plans residence, New Jersey and Alabama Aves., Avondale.

Ga., Savannah—W. P. Monroe erect 2 bungalows, 36th St., near Harmon and Paulsen Sts.

Ga., Thomasville—Floyd W. Armour erect Colonial residence, Wildwood; 1½ stories, wide weatherboard and shingles, Creole-Dipt variegated shingle roof, hardwood floors, tile bath; T. W. & E. O. Smith, Archts., Thomasville and Georgia Home Bldg., Columbus.

Ga., Thomasville—Mr. Fillingim erect Colonial residence, Wildwood; weatherboard and shingle, Creole-Dipt variegated shingle roof, hardwood floors, tile bath; T. W. & E. O. Smith, Archts., Thomasville and Georgia Home Bldg., Columbus.

La., New Orleans—Dr. J. Leo Burthe, 5133 St. Charles Ave., plans residence, Metairie Club Estates.

La., New Orleans—Moise H. Goldstein, Archt., Hibernia Bldg., receiving bids for alterations and additions to frame dwelling, 1633 Octavia St.; new bath, sleeping porch; J. A. Haase, Jr., 916 Union St., estimating.

La., New Orleans—Edw. C. Barker, 3916 Canal St., erect brick veneer raised residence, Versailles Blvd.; tile roof and baths, warm-air heat, hot-water heaters, finished floors; Hyman Rabinovitz, Archt., 740 Poydras St.

La., New Orleans—C. L. Fasnacht, 3231 N. Miro St., erect single cottage, People's Ave. near Athis St.; 27x76 ft., composition roof.

La., New Orleans—Alex Story, 5025 Willow St., erect double cottage, Toledano St. near Prieur St.

La., New Orleans—R. P. Jackson, 4117 Eden St., erect 2-story duplex, Second St. near Camp St.

La., New Orleans—Jos. Pelletier, erect 1-story frame residence and over-building, Royal and Kerlerec Sts.; concrete foundation, asbestos roof, tile baths, promenade tile, brick garage; E. M. Reynolds, Archt., 822 Perdido St.

La., New Orleans—F. Cornish, 4079 St. Ferdinand St., erect single cottage, St. Ferdinand St. and Gentilly Rd.; 12x24 ft., composition roof.

Md., Baltimore—Albert L. and Josie D. Miller, 981 Lexington Market, erect residence, Homeland Ave. near Arbutus Ave.

Md., Baltimore—Columbia Construction Co., Wheeler Ave., erect 8 brick dwellings, 2300 block, Windsor Ave.; and 7, 100 block De Palpe Ave.; 2 stories; total cost about \$41,000.

Md., Baltimore—Highland Home Building Co., Lexington Bldg., erect 29 brick dwellings, 200 and 300 blocks N. Hilton St.; 2 stories; total cost about \$75,000.

Md., Baltimore—Webster & Garner erect 12 dwellings, Herkimer and Spence Sts.; 2 stories; total cost \$32,000.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 10 brick dwellings, 3200 block Belmont Ave.; 2 stories; total cost \$30,000.

Md., Baltimore—Alton T. Nichols, 3508 Calloway Ave., erect 23 brick dwellings, 43-87 S. Hilton St.; 2 stories; total cost \$55,000.

Miss., Meridian—Mrs. Jack Daly, 1703 23d Ave., to erect \$15,000 residence; 1 story, 50x125 ft., hardwood floors, tile bath, thatched roof; P. J. Krouse, Archt., M. & W. Building.

Miss., Meridian—C. L. Gray, Magnolia Rd., erect \$15,000 residence; brick, 1 story and basement, field stone trim, asbestos shingle roof, hardwood floors, steam heat, tile baths; P. J. Krouse, Archt., M. & W. Bldg.

Miss., Biloxi—Dr. J. T. Weeks erect \$10,000 residence, Bay Terrace.

Miss., Tupelo—Jack Jones erect \$12,000 residence; brick, 1½ stories and basement, 70x50 ft., composition shingle roof, oak floors, tile bath, steam heat, frame garage; Walter R. Nelson, Archt., 88 Shrine Bldg., Memphis, Tenn.

Mo., Clayton, St. Louis—Laura Miller, 1045 Fairmount St., erect \$12,000 brick residence, Hillcrest; 45x28 ft.

Mo., Clayton, St. Louis—L. F. Horn, 3918 National Bridge Rd., erect \$11,000 brick residence, Normandy Grove; 27x36 ft.

Mo., Kansas City—Morris Building Co., erect dwellings, 1312 Woodland and 2420 Tracy Aves.; total cost \$30,000.

Mo., St. Louis—E. R. Flint, 1265 Hamilton Ave., erect \$12,000 residence, Moorlands; brick, 2 stories and basement, 23x30 ft., concrete foundation, composition roof, tile bath, hardwood floors, steam heat; R. C. Wageley, Archt., 1600 Hodlamont St.

Mo., St. Louis—Gill & Jackson, Archts., 526 Buder Bldg., drawing plans for \$35,000 English type dwelling, Bel-Nor subdivision; brick and stone, 2 stories and basement, 42x35 ft., concrete foundation, slate roof, hardwood floors, metal lath, stucco and terra cotta trim, Celotex ceiling, hot-water heat, 3 tile baths.

Mo., St. Louis—Frank A. Hueser, Archt., 4534 Fair Ave., completed plans for two \$15,000 dwellings, Floors Place and Block 5, Normandy; brick, 2 stories and basement, 27x34 ft. and 27x40 ft., tile roofs and baths, hardwood floors, stone foundations, hot-water heat.

Mo., St. Louis—John A. Logan, care of Hall-Mackay Construction Co., 625 Locust St., erect \$20,000 residence, Forsyth St. near Big Bend Rd.; brick, stone trim, 2 stories and basement, 35x42 ft., concrete foundation and first floor slab, tile roof, hardwood floors, tile bath; Wesley M. Bachman, Archt., 1221 Louderman Bldg.

Mo., St. Louis—P. C. Paugh, 918 Goodfellow St., erect \$35,000 residence, Euclid and Westminster Sts.; brick, 2 stories and basement, rubble stone foundation, asphalt shingle roof, tile bath, hardwood floors, steam heat; Edw. Lantz, Archt., 207 Wainwright Bldg.

N. C., Boone—V. E. Ballow erect 6 dwellings, connection with subdivision development near Boone; other dwellings as needed.

N. C., Durham—J. L. Sallv, 802 Park Ave., erect 6 dwellings, Club Blvd.; 2 stories; total cost \$30,000.

N. C., Reidsville—Reidsville Insurance & Realty Co., Jas. T. Smith, Pres., erect few dwellings, connection with development.

Okla., Oklahoma City—John J. Harden, 2501 W. 16th St., erect 2 brick veneer dwellings, 2608-2634 W. 16th St.; total cost about \$10,000.

Okla., Tulsa—N. B. York, 12 W. Francis St., erect \$10,000 brick residence and garage, 1220 E. 27th Place.

Okla., Tulsa—C. W. Titus, Kennedy Bldg., reported plans residence, S. Peoria Ave. and 31st St.

Tenn., Chattanooga—C. E. Wood, 4003 Calhoun Ave., erect \$10,000 residence, Dodds Ave. near Oak St.; 8 rooms, 2 stories.

Tenn., Knoxville—J. H. Anderson, 409 Williams St., rebuild burned residence, Circle Park.

Tex., Brownsville—E. K. Goodrich erect \$22,000 residence; 2 stories, stucco; Stanley W. Bliss, Archt., care owner.

Tex., Dallas—Curtis G. Jones erect Colonial residence, Purdue St., University Park; 32x38 ft., plaster and stucco, hardwood and tile floors, steel casements; Jon D. Carsey, Archt., 2101 N. Harwood St.

Tex., Edinburg—L. E. Tingle erect 8-room brick veneer residence; Robt. L. Vogler, Archt., care owner.

Tex., Fort Worth—Carb Building Co., Wheat Bldg., erect 6 brick veneer dwellings, 2425 Medford Court, 2533-42-51-2533-42-61 Cockrell and 2525-51 Greene Sts.; total cost \$63,500.

Tex., Fort Worth—F. V. Sprowls, erect \$18,000 residence; brick veneer and plaster, 2 stories, 39x63 ft., concrete foundation, tile roof; furnishings, equipment, etc., \$5000; E. F. Gunn, Archt., both 1944 Forest Park Blvd. See Want Section—Building Materials and Equipment.

Tex., Fort Worth—W. F. McDermott erect \$15,000 brick veneer residence, 2400 Medford Court.

Tex., Fort Worth—Model Home Builders erect 2 brick veneer dwellings, 3312 Berry and 3124 Odessa Sts.; cost \$5000 each.

Tex., Donna—E. J. Pamerson, erect \$12,000 Italian type residence; hollow tile and face brick, 2 stories; R. W. Mulhausen & Co., Archts., Harlingen.

Tex., Fort Worth—J. H. Williford erect \$10,000 brick residence, 2421 Medford Court.

Tex., Houston—L. Gabert, Archt., 1315 Bell St., erect \$10,000 duplex, 2210 Blodgett St.; 2 stories, 8 rooms, brick veneer.

Tex., Houston—Gulf Lumber & Building Co. erect \$12,000 duplex, Bonnie Brae and Mandell Sts.; 2 stories, brick veneer, shingle roof.

Tex., Houston—T. E. Price erect 2 duplexes and garages, Castle Court addition; brick veneer, 8 rooms and bath; total cost about \$12,000.

Tex., Houston—F. S. Sheridan, 114 E. Norman St., erect 2 duplexes, Michigan and Yupon Sts., Cherryhurst Addition; cost \$12,000 each.

Tex., Houston—Emenhiser & Myklebust, Second Nat. Bank Bldg., erect \$20,000 dwelling, 1619 Blodgett St.; frame, 9 rooms.

Tex., Houston—Franklin Building Co. erect 2 frame dwellings, 930 Euclid and 4338 Pease Sts.; 5 rooms; total cost \$11,250.

Tex., Houston—Mrs. M. B. Atwell erect 3 frame dwellings, N. Milby St.; 5 rooms; total cost \$18,000.

Tex., Houston—Bonita Building & Lumber Co., J. C. Stedman, Gen. Mgr., 8401 Harrisburg Rd., plans number dwellings, West Edgemont Addition; brick veneer; total cost \$175,000; also erecting number dwellings in other sections.

Tex., Olmito—J. F. Daile, care Al Parker Securities Co., Brownsville, plans dwellings, Lake Olmito.

Tex., Olmito—Al Parker Securities Co., W. W. Hultt, Mgr., Brownsville, announces work soon start on number dwellings.

Tex., San Antonio—Carl Newton, 2464 S. Pressa St., erect \$50,000 to \$60,000 residence, after plans by Atlee B. and Robt. M. Ayres, 626-27 Bedell Bldg.; hollow tile and stucco, red tile roof, oak floors, tile floors and wainscoting.

Tex., San Antonio—Dr. J. E. Felder, Moore Bldg., erect \$35,000 stone-tile and stucco residence; 2 stories; Kelwood Co., Archts.-Engrs., Travis Bldg.; about ready for bids.

Tex., Weslaco—S. B. Grant erect brick veneer residence, Ebony Grove dairy farm near Weslaco; 2 stories; Stanley W. Bliss, Archt., care owner; completed plans.

Va., Salem—A. M. Tinsley erect residence, Langhorne Place; cost about \$10,000.

Government and State

Fla., St. Augustine—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids April 5 for remodeling and enlarging lobbies, toilet rooms, etc., at Post Office and Customhouse; drawings and specifications from Custodian at site or from office Supervising Archt.

Ky., Shelbyville—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids April 11 for post office; drawings and specifications from Custodian at site or from office Supervising Architect.

Miss., Jackson—Hinds County Board of Supervisors erect armory for National Guard, Curtis T. Green, Adj.-Gen.

Tex., Mineral Wells—United States Property and Disbursing Officer for Texas, Camp Mabry, Austin, receives bids in triplicate April 5 for kitchens and mess halls, bath-houses, latrines, water and lighting system, at 56th Calvary Brigade, Texas National Guard Camp; further information on application.*

Hospitals, Sanitariums, Etc.

Ala., Columbiana—Dr. Joel Chandler convert Blackberry Hotel into hospital.

Ark., Siloam Springs—Drs. A. E. Orr and Jas. Garber erect stucco veterinary hospital, Wright St.

Fla., Tampa—City Commission, W. Lesley Brown, City Mgr., receives bids April 12 at office City Clk. for misc. equipment for \$1,500,000 Tampa Municipal Hospital, including laundry equipment, kitchen and serving room equipment, general furniture, lighting fixtures, X-ray equipment, special metal cabinets, lockers, special surgical equipment,

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vacuum cleaning equipment, sterilizers and draperies; plans and specifications by Stevens & Lee, Const. Archts., 45 Newbury St., Boston, Mass. (Lately noted open bids April 10.)*

La., New Orleans—Charity Hospital has low bid at \$123,457 from Thos. H. Brockman for internes' home, Tulane Ave.; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.*

Md., Cumberland—City Council plans \$500,000 bond election for hospital to replace Western Maryland Hospital; to request Allegany County to contribute \$100,000 toward erection.*

N. C., Waynesville—Haywood County Hospital Bldg. Comm. receives bids April 5 for fireproof hospital; cost \$100,000, 3 stories and basement, 138x41 ft., red face brick, limestone trim, reinforced concrete floors, tile floors and walnut trim in operating rooms, elevators; bids on turn key job, also on heating, plumbing and wiring separately; plans and specifications from Louis H. Asbury, Archt., 1514 E. Fourth St., Charlotte.*

N. C., Winston-Salem—Forsyth County may vote in special election on tuberculosis hospital bonds. Address Board of Commrs.

Okl., Muskogee—Oklahoma Baptist Hospital Board of Directors, Rev. A. N. Hall, Pres., plans \$150,000 addition, including enlargement of nurses' home and \$35,000 equipment.

Okl., Tulsa—Morningside Hospital, Mrs. M. J. McNulty, Owner, 521 N. Boulder St., opens bids April 1 for fireproof hospital, 12th and Utica Sts.; cost \$250,000, brick and white stone, 5 stories; furnishings, equipment, etc., \$75,000, work start April 15. Address Morningside Hospital. See Want Section—Building Materials and Equipment.*

Hotels and Apartments

Ala., Mobile—James K. Glennon & Co., 205 St. Francis St., planning development on Eastern Shore of Mobile Bay in Baldwin County, known as Point Clear, include hotel and golf course.

Fla., Jacksonville—Charles Barshefsky erect \$10,000, 2-story, frame flats, Levere St.

Fla., Jacksonville—H. A. Halsema, 720 W. 35th St., erect \$35,000, 2-story, brick and stone apartments, Herschell St.

Fla., Jacksonville—Walter E. Boyd, Ortega Blvd., has permit for \$20,000, 2-story, brick and veneer apartments, Sixth St., for Mrs. Gertrude Schneider.

Fla., Jacksonville—C. F. Senyard, Aberdeen St., erect \$10,000, 2-story, stucco flats, Seminole Road, for Lillian B. Tomlinson.

Fla., Jacksonville—E. J. Schmitz has permit for \$13,000, 2-story, brick veneer apartments, Post, between Osceola and Stockton Sts., for C. C. Butler, 1749 College St.

Fla., Palm Beach—A. Bentley Sons, Inc. erect \$90,000, 3-story apartment building on Barton Ave.

Fla., Tampa—Charles A. Williams, 1018 Perry St., erect \$35,000 apartment building, North Boulevard.

Ga., Savannah—W. L. Merriman, Pres. of Charles F. Fulton Co., Citizens Trust Bldg., announced plans for \$500,000 apartment building, near Forsyth Park.

Ga., Savannah—Mrs. R. L. Baugh, 1015 E. 47th St., remodel residence on Lincoln St. into 4 apartments.

Ga., Savannah—Mrs. W. H. Dunn erect brick veneer apartment house on Henry St.

Ky., Ashland—Ashland Hotel & Realty Co., has plans in progress by Wysong & Bengtson, Inc., Professional Bldg., Charleston, for \$325,000, 64x82 ft., 11-story and basement, fireproof hotel; 99 rooms, all with bath; lobby, kitchen, dining room, banquet room, private dining rooms, etc.; Archts. advise: Hope to have plans completed about first of April and take bids about the 20th. (Recently reported incorrectly under W. Va., Ashland).*

Ky., Harrodsburg—Judge B. C. Allen, owner of Graham Springs Hotel, erect 60-room addition and swimming pool and pavilion.

Ky., Murray—F. B. Morse of St. Louis Building Syndicate, St. Louis, Mo., accepted plans, soon let contract for \$85,000 to \$100,000, 50-room, fireproof, brick with limestone trim hotel building; 40 private baths, running water in every room, ground floor include lobby, coffee shop, 3 stores; heating plant and barber shop in basement.

Ky., Owensboro—Willard Bates, Seventh and St. Ann Sts., plans extensive additions and remodeling apartment building.

Ky., Owensboro—Mrs. Clara Keene plans to convert property on St. Ann St. into apartment building.

La., New Orleans—Lockett & Chachere, Archts., Title-Guarantee Bldg., placed plans and specification on market for general contract bids for 2-story, frame triplex on Palmyra St., for Mrs. George Patterson; slate roof, tile baths, hardwood floors.

La., New Orleans—Cranford E. Sykes, Mgr. of Lynrose Hotel, 528 St. Charles Ave., reported planning 2 additional floors.

Miss., Jackson—Emmett J. Hull, Archt., prepared plans and specifications for \$300,000, 7-story and roof garden Bellevue-State Apartment Hotel, cor. N. State and Boyd Sts., to be built by local capital; 154 rooms divided into 33 apartments and 54 hotel rooms.

Miss., Vicksburg—Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg., New Orleans, La., selected to prepare plans and specifications for \$1,000,000, 10-story, reinforced concrete, steel, brick and stone trim, fireproof hotel building; 300 rooms, 3 electric passenger elevators, steam heat, every room with bath.

Mo., Excelsior Springs—Homer Crowley has completed plans for \$50,000, 25-unit apartment hotel.

Mo., Kansas City—Ernest C. Platt, 3615 Wyoming St., will erect 28-unit kitchenette apartment building, 1507 Pennsylvania Ave.

Mo., Kansas City—William D. Snyder, Commerce Bldg., will erect 11-story apartment and business building on Linwood Blvd. west of Troost Ave.

Mo., Kansas City—E. C. Cooper erect \$20,000, 2-story apartment building, 3600 E. 12th St.

Mo., Kansas City—H. E. Gisher erect \$15,000, 2-story apartments, 431-33 Krauthoff Ct.

Okl., Tulsa—Waldo T. Freeman, Bliss Bldg., taking sub-contract bids on \$30,000 apartment building; no general contract to be awarded; John V. Starr, Archt., 102 S. Owasso St.

S. C., Columbia—C. Gadsden Sayre, Archt., 435 Jefferson Bldg., Greensboro, N. C., and associates, reported, to erect \$1,250,000, 12-story hotel building; 240 rooms each with private bath; financing complete.

S. C., Spartanburg—Drs. W. S. Zimmerman and B. B. Steedley purchased Y. W. C. A. building on E. Main St., probably convert into apartment house.

Tenn., Chattanooga—A. A. Drago, Hamilton Bank Bldg., erect \$45,000, 3-story apartment building, High between Third and Fourth Sts.

Tenn., Chattanooga—Charles C. Moore, Hamilton Natl. Bank Bldg., has plans in progress by James Verhey, 1713 Oak St., for \$75,000, 3-story, fireproof, 18-apartment building, 709 Oak St.; equipment and furnishings cost \$10,000. See Want Section—Building Materials and Equipment.*

Tenn., Memphis—W. J. Brinkley erect \$25,000, 2-story, 8-family apartment house, Overton Park Ave.

Tenn., Memphis—A. Goodman, 661 Marshall Ave., plans four 4-family apartment houses on Poplar Blvd.; \$75,000.

Tex., Beaumont—Sam Fertitta, Alexander Bldg., announced addition of floor to Fertitta Building being erected at Main St. and Liberty Ave.; 10 apartments, \$20,000.

Tex., Beaumont—John H. Crooker, State Natl. Bank Bldg.; James Ruskin Bailey, Archt., 1606 Main St., both Houston, and W. Carroll Keith, 546 Keith Bldg., Beaumont, planning \$750,000, 12-story, 250-room, 60x180 ft., reinforced concrete joist hotel building, S. W. cor. Pearl and Wall Sts.; cement floors, piles and spot piers foundation, tar and gravel roof, equipment and furnishings cost \$150,000; plans by Mr. Bailey; H. M. Sandford, Engr., West Bldg., Houston; project not to be put out for bids. (See Want Section—Building Materials and Equipment).*

Tex., Corpus Christi—J. E. Poulos & Bros., care Mecca Cafe, 118 E. Houston St., San Antonio, receiving bids, to be opened about Mch. 28, for \$300,000, 6-story, 125-room, brick, concrete and stone hotel building; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.*

Tex., Corpus Christi—W. A. Nethercot, Archt., 312 Waco St., complete plans about April 1st, for 3-story, 75x150 ft., brick, stucco, tile and reinforced concrete store and apartment building; owners' name withheld.

Tex., Corpus Christi—Princess Louise Hotel Co. opened bids for 5-story, 100x115 ft., T-shaped, tile, stucco, reinforced concrete hotel building; Sumner Sollitt Co., Natl. Bank of Commerce Bldg., San Antonio, low bidders at \$182,515; everything included in general contract; Spanish tile roof, tile,

concrete and wood floors, 3 passenger elevators; Wm. Ward Watkin, Archt., Scanlan Bldg., Houston.*

Tex., El Paso—Mrs. Flora Weldemeyer, 410 Campbell St., purchased Palms Court Apartment, will refurbish and remodel.

Tex., Fort Worth—C. C. Flowers, erect \$25,000, brick veneer apartment house, 5129 Byers Ave.

Tex., Houston—L. W. Babbitt, Chronicle Bldg., erect \$22,000, 2-story, brick veneer, 4-apartment building, 231 W. Alabama St.; 6 rooms and bath each.

Tex., Houston—Boyer Builders erect 2-story, 10-room, brick veneer duplex and story, brick veneer, 4-apartment building and garage, 536 Harvard St., \$9500.

Tex., Houston—C. G. Curtis, Archt., 1632 Hawthorne St., preparing plans, soon take bids for two \$18,000, 3-apartment buildings; 7 rooms each, brick veneer, concrete foundations, plastered walls and interior, asbestos roof, Arcola heat, tile bath, oak and tile floors, roller beds; A. S. Henley, owner, 407 Colquit St.

Tex., Houston—G. A. Gates, 1904 Jordan St., Dallas, purchased block fronting 250 ft. on Richmond Road at Graustark, reported planning apartment building.

Tex., Houston—R. L. Morgan, 1318 Willard St., erect \$17,000, 16-room apartment house, 607 W. Gray St.

Tex., Houston—A. E. Olson & Bros., 1519 Main St., erect \$18,000, 16-room apartment house, 411 W. Gray St.

Tex., Lela (Mail Shamrock)—Malcolm Henry, developer, interested in construction of 42-room hotel.

Tex., San Antonio—C. E. Goree, care Del-Mar Corp., F. Carvel, Mgr., Frost Bldg., plans development at Woodlawn and Belknap Sts.; include \$250,000, 6-story family hotel, 25 apartments; fireproof, brick, reinforced concrete, hollow tile, stone, plaster, metal lath; Carvel & Co., designers.

Tex., San Benito—B. A. Elwing, Archt., Harlingen, selected to prepare plans for \$500,000 hotel on Venetian Estates tract, south of San Benito; probably 6 stories, brick, tile and stucco, Venetian Architecture; F. M. Discus, owner, care Archts.

Va., New Market—Shenandoah Valley Estates, Inc., Roland G. Hill, Pres., has plans in progress, start work next month on hotel building; erecting clubhouse to be completed May 1st; will also erect 18-hole golf course; engineering by American Industries Engineering Co., 90 West St.; Dwight James Baum, Archt., Spuyten Duyvil Pkwy. and Waldo Ave., both New York.*

Miscellaneous

Ala., Birmingham—Vassar L. Allen, First Nat'l Bank Bldg., James A. Simpson and others formed temporary organization take over 140-acre tract on Cahaba River, donated by George W. Acton for club purposes; plan clubhouse, golf course, tennis courts, etc.

Ky., Louisville—E. T. Hutchings, Archt., 418 S. Fifth St., preparing plans for \$250,000, 3-story, fireproof Charles P. Moorman Home for Women.*

Ky., South Park—South Park Fishing Club plans to erect \$50,000 clubhouse.

La., Mandeville—R. L. Vignerie, 4151 Iberville street, New Orleans, announced sketches being considered for country clubhouse.

La., Monroe—Southern Amusement Co. Inc., erect \$10,000, 2-story, brick building on DeSiard street.

La., New Orleans—Theard & Matthews, Archts., Balter Bldg., receives bids Mch. 22 for alterations and additions to Seventh Street Protestant Orphans' Home, 3020 Magazine street; plumbing, heating, oil-burning equipment and ventilating under separate contract.*

Md., Baltimore—John R. Thompson Co., Inc., 350 N. Clark St., Chicago, leased first floor and basement of building at 17-19 W. Baltimore St.; make extensive alterations.

Miss., Biloxi—Rotary Club endorsed proposal for \$31,000 baseball park and stadium; Carl Matthes, Archt.

Mo., Eureka Springs—Commercial Club, B. J. Rosewater, Sec., plans to raise \$10,000 to erect assembly hall.

Mo., Kansas City—E. A. Hart, 1818 E. 67th

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St. Terrace, reported planning 4 or 5 story building at S. W. cor. 18th and Walnut Sts.

Mo., St. Louis—Beverly T. Nelson, Archt., Chemical Bldg., completed plans, work soon start on clubhouse for Osage Country Club.

Okla., Shawnee—Shawnee Country Club has sketches by Edw. J. Petre for \$25,000, 1-story and basement, brick and tile, 100x70 ft. clubhouse; concrete and frame floors, concrete foundation, equipment and furnishings cost \$5000 to \$10,000.*

Okla., Tulsa—Tulsa Art Association, Mrs. R. F. MacArthur, Pres., 520 North Cheyenne street, planning to erect community art museum, South Main and East 21st streets.

Tex., Humble—E. K. Barden, Chmn., and A. G. Harrison, Sec. of committee planning gymnasium, cafeteria and library.

Tex., San Angelo—San Angelo Country Club, C. C. McBurnett, plans installing sprinkler system; Koch & Fowler, Engrs., 801 Central Bank Bldg., Dallas.

Va., Richmond—Kappa Alpha Alumni Foundation, Dr. J. A. C. Chandler, Pres. of College of William and Mary, Williamsburg, Pres., plans to raise \$500,000 for erection of building at Allen and Monument Aves.

W. Va., Huntington—Huntington Stadium Co., care Col. George S. Wallace, Union Bank Building, soon incorporate to erect city stadium at Charleston Ave. and 15th St.; first unit cost \$75,000; steel and concrete; seat 6000.*

Railway Stations, Sheds, Etc.

Ala., Florence—Florence, Clifton & Paducah Railway has site for terminal depot on river front.

La., Many—Kansas City Southern Ry. Co., A. M. Reece, Ch. Engr., Kansas City, Mo., let contract within 60 days for brick and stucco station.

Tex., Dallas—E. F. Mitchell, Ch. Engr., Texas & Pacific Railway Co., announced plans for consolidated freight station near Hawkins St. and Pacific Ave., East Dallas; \$500,000.

Tex., Panhandle—Sante Fe Railway Co., Topeka, Kansas, plans \$75,000, brick, stone and concrete depot.

Schools

Ala., Opelika—School Board, M. M. McCall, Chmn., recommended to City Council erection of \$100,000 school building; bond election soon.

Ala., Phenix City—Board of Education plans \$40,000 to \$50,000 bond election for new junior-senior high school.

Ala., Seale—Bids wanted on construction of State-aid brick school building; blueprints may be seen at Judge of Probate Office, Court House; information from Charles R. Dudley.

Ala., Searles—Tuscaloosa County Board of Education, J. B. Sellers, Supt., Tuscaloosa, planning to erect district high school.

Fla., Fort Lauderdale—Broward County Board of Public Instruction receives bids until March 23 for 16-room Northside Grammar school; Sutton & Routt, Archts.*

Fla., Havana—Gadsden County Board of Public Instruction, Quincy, call election April 5 on \$15,000 bonds, erect \$30,000 school with 7 or 8 classrooms and auditorium.

Fla., Ocala—Marion County Board of Public Instruction, H. G. Shealy, Supt., call election March 29 in Oklawaha Special Tax School District No. 13 on \$25,000 bonds.

Fla., Pensacola—Escambia County Board of Public Instruction, Oliver J. Semmes, Chmn., call election May 10 on \$225,000 for 2 new grammar schools and additions to primary schools.*

Fla., St. Petersburg—Pinellas County Board of Public Instruction call election April 5 (postponed date) on \$450,000 school bonds.*

Fla., Tampa—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Supt., opened bids for erecting West Tampa Junior High School and new brick school at Wimauma; Lovering & Longbotham, Power and Light Bldg., St. Petersburg, low bidder on West Tampa, at \$143,347, and on Wimauma, at \$61,489; Francis J. Kennard & Son, 303 Zack street, Archts. for West Tampa, and Frank Winn, Jr., 706 Franklin street, Archt. for Wimauma.*

Fla., Wimauma—Hillsborough County Board of Public Instruction, Tampa, will erect \$100,000 High School building.

Ga., Atlanta—School Board authorized business department of public school system call for bids for reconstruction of Ashby Street school.

Ga., Moultrie—Oconee Consolidated School District approved \$37,000 bond issue for new school building; address Colquitt County Board of Education.

Ga., Rome—Berry Schools plans to raise \$200,000 for erection of building as memorial to motherhood.

Ga., Tifton—El Dorado Consolidated School District voted \$20,000 bonds for new brick school building. Address Tift County Board of Education.

Ga., Waycross—Board of Education, Q. L. Garrett, Pres., purchased tract on Magnolia St., William Heights, for graded school.

Ky., Danville—School Board considering immediate building program of \$100,00; includes replacing Maple Ave. graded school with new elementary building.

Ky., Lexington—Board of Education employed Robert W. McMeekin, Archt., Security Trust Bldg., for additions to Ashland and Arlington Schools; Franz C. Warner and W. R. McCornack, Asso. Archts., Bulkeley Bldg., Cleveland, Ohio.*

Ky., Paducah—McCracken County Board of Education, C. H. Gentry, Supt., receives bids Meh. 21 for \$17,000 to \$20,000, 2-story, brick, 170x30 ft. Reidland High School; concrete foundation; Jamieson & Eddings, Archts., 630 Broadway.*

La., Coushatta—District voted \$150,000 school improvement bonds; A. H. Horton, Supt. Red River Parish schools.

La., Hammond—Tangipahoa Parish School Board, Dr. J. H. Beatty, Pres., Amite, call election April 5 on \$18,000 bonds, purchase site for Junior College.

La., Winnfield—City defeated \$160,000 school bonds. Address Board of Education.*

Miss., Corinth—Alcorn County Board of Education soon let contract for \$17,000 school building in Gift Consolidated School District.*

Miss., Crawford—Lowndes County Board of Supervisors, Columbus, call election April 5 on \$10,000 bonds for new school building.

Miss., Houston—Town Board, Mayor W. M. Tab, will borrow \$35,000, to be added to \$55,000 now available, for new school building.

Miss., Saucier—Harrison County Commissioners, Gulfport, ordered election in Saucier Consolidated School District on \$35,000 bonds for new school.

Miss., Starkville—Board of Education receives bids until April 1st for \$125,000 High School building; Claude H. Lindsley, Archt., Lamar Life Bldg., Jackson.*

Miss., Starkville—Mayor and Board of Aldermen voted \$25,000 additional bonds for new school, to cost \$115,000.

Mo., Joplin—Board of Education, Dr. J. G. Barnett, Pres., receives bids March 22 for new school building on present site of Washington School, Central Ave. and School St.

Mo., Springfield—Board of Education will call bond election this spring for school improvements; amount not determined.

N. C., Asheville—Buncombe County Board of Education selected site at Barnardsville for new school building.

N. C., Boone—Watauga County Board of Education accepted deed for site of new school in Sandy Flat-Meat Camp District.

N. C., Charlotte—Board of School Commissioners, H. P. Harding, Supt. of Schools, has completed plans by Lockwood, Greene & Co., Johnston Bldg., for \$30,000, 60x170 ft. gymnasium at Central High School.*

N. C., Durham—Durham County Board of Education planning school buildings in Carr and Patterson townships.*

N. C., High Point—School Board, T. Wingate Andrews, Supt. of Schools, purchased tract in southeastern section for school.

N. C., Newton—Catawba County Board of Commissioners, Charles Finger, Chmn., announced \$600,000 bonds sold, for schools, roads, etc.

Okla., Anadarko—Clay Riggins, Oklahoma City, preparing plans for \$60,000 brick and stone High School building for Board of Education.

Okla., Medford—School District No. 54 votes March 29 on \$20,000 school bonds; C. E. Herschberger, Chmn. Board of Trustees.

Okla., Norman—Chi Omega society purchased property near campus of University of Oklahoma, for new home; Kappa Alpha let contract for \$50,000 Colonial design building.

Okla., Tecumseh—Tecumseh College, T. A. Searcy, Pres., plans to erect \$10,000, 1-story, brick, 50x100 ft. with annex 40x50 ft. school; hardwood floors, brick or stone foundation. (See Want Section—Building Materials and Equipment).

S. C., Greenville—J. T. Woodside, Pres. of Woodside Co., Woodside Bldg., and L. P. Hollis, Supt. of Parker District, have plans by H. Olin Jones for 10 or 12-room grammar school for Woodside community.

S. C., Taylors—Taylors School District voted \$35,000 bonds for 10-room school building; C. S. Hammett, Chmn. Board of Trustees.*

Tenn., Lexington—City will vote \$25,000 bonds. Address Board of Education.

Tenn., Palmer—Palmer School Building Committee, T. W. Starbuck, Sec., receives bids until April 1 for erecting 7-teacher, 1-story, block school building.

Tex., Amarillo—Northwest Texas Methodist Conference locating commission, care Bishop John M. Moore, 4311 Rawlin St., Dallas, voted to locate Clarendon College at Amarillo.

Tex., Fort Worth—Board of Education, Ed A. Corbett, Chmn., Building Committee, soon have plans ready for bids on \$30,000, 3-story, fireproof, brick, stone and reinforced concrete Junior High School; stone trim, reinforced concrete frame and floor slabs, steam heat; Wm. G. Clarkson & Co., Archts., 610 First Nat. Bank Bldg.*

Tex., Perryton—Board of Education Independent School District, W. B. Irvin, Supt., receives bids March 29 for \$70,000, 2-story High School building; Mann & Co., Archts., Hutchinson, Kansas. See Want Section—Building Materials and Equipment.*

Tex., San Augustine—Board of Education will call \$55,000 bond election for remodeling high and grade school.

W. Va., Martinsburg—Board of Education call for bids about March 25, to be opened about April 25, for \$340,000, 2-story High School building; Frampton & Bowers, Archts., 414 11th St., Huntington.*

Stores

Ala., Decatur—Dr. Frank Emens erect \$10,000 business building, Johnston St. and First Ave.

Ark., Little Rock—Sam Grundfest Co. will remodel 3-story building, Capitol Ave. and Center St., for department store; Sanders & Ginocchio, Archts., Hall Bldg.

Fla., Fort Lauderdale—Sam F. Baker Co. erect \$14,000 building, S. Andrews Ave. and Second St.

Fla., Live Oak—Dr. H. F. Airth plans immediate construction of 1-story, 23x40 ft. brick building on W. Howard St.

Fla., South Jacksonville (Ind. Br. of Jacksonville)—J. F. White, Sr., Ames Ave., clearing site for \$35,000, 200x50 ft., 1-story, brick, Spanish design, 9-store business block, Center and Flagler Sts.

Ga., Atlanta—Newman & Holley, Inc. leased building near Peachtree and Broad Sts.; will remodel.

Ky., Louisville—Morris M. Wright, Sales Mgr. of Heatt Bros. Realty Co., 229 Fifth St., owners of Norton Building, announced plans for remodeling, include building of 2 stores, installation of 2 elevators, repainting, etc.; \$60,000.

La., Baton Rouge—Reymond Co., Inc., S. I. Reymond, Pres., Third St., erect 2-story and basement, 68x168 ft. annex; Wogan & Bernard, Archts.

Miss., Gulfport—N. W. Overstreet, Archt., Miss. Fire Insurance Co. Bldg., Jackson and Gulfport, opened bids for 1-story face brick and stone trim store building for Chicago Investment Co.; Beckelheimer & Small, low bidders at \$21,250; concrete foundation, Johns-Mansville roof, tile floors and coping.*

Mo., Kansas City—Schutte Investment Co., erect \$70,000, brick dwelling, N. E. cor. 15th St. and Kansas Ave.

Mo., Kansas City—J. Steinzeig, 31st and Frost Sts., erect \$100,000 stores and apartment, 2700-6 Troost Ave.

Mo., Kansas City—L. F. Rieger, 425 Gladstone Bldg., erect \$20,000 building at 901 E. 12th St.

Okla., Woodward—Luther Shobe, Woodward, and T. W. Hawkins, Elk City, purchased lots; will erect 2 store buildings.

Tenn., Chattanooga—J. L. Trimble, 316 Crewdson St., erect \$12,000, 1-story building, Chestnut between Third and Fourth Sts.

Tenn., Chattanooga—Ben Wright, Missionary Ridge, erect \$10,000, 2-story business and apartment building, Dodds Ave.

Tenn., Kingsport—Dr. E. Q. Tipton, reported, to erect 2-story business building, Broad and Shelby Sts.

Tex., Brownsville—Aziz Brothers have plans under way for 2-story store building at Elizabeth and 11th Sts.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Brownsville—Dr. W. E. Spivey announced plans near complete for new \$40,000 building; present building to be remodelled for stores.

Tex., Dallas—Dr. E. E. and Anoy M. Pancoast erect \$12,500, brick store building, 4533-37 Cole Ave.

Tex., Fort Worth—McLellan Stores Co., A. B. Chapman, Mgr., plans new store replace burned building.

Tex., Fort Worth—Mrs. J. E. McCarty erect \$19,000, brick and steel store building, 23rd and N. Main Sts.

Tex., Fort Worth—Shaw Jewelry Co., 1001 Main St., repair store building at S. W. cor. Seventh and Main Sts.; \$25,000.

Tex., San Benito—Hinkley & Sublet open bids about March 20 for \$50,000, 2-story, 131x80 ft., hollow tile stores and hotel building; reinforced concrete foundation, concrete and wood floors, composition roof; William D. Van Sclen, Archt., 9 Maltby Bldg., Brownsville. (See Want Section—Building Materials and Equipment).*

Tex., Wichita Falls—Mrs. S. B. Lynch erect \$20,000 business building at 805-7 Travis St.

Tex., Wichita Falls—Mytinger & Walker, Harvey-Snyder Bldg., erect \$10,000, 1-story, brick, 3-story building at 909-11 Eighth St.

Tex., Winter Haven—Dr. G. W. Matleson, care Henry Hagelstein, Travis St., San Antonio, plans 1 or 2 story, brick, stone, hollow tile, reinforced concrete store and office building; tar and gravel roof.

Va., Danville—G. G. Campbell, 127 Baugh St., erect \$20,000 store at 201½ N. Main St.

Va., Richmond—V. L. Perkins erect 7 brick stores at 403-15 S. Meadow St.; \$10,000.

Va., Roanoke—Kimmerling Brothers, florists, Patrick Henry Hotel, plans to improve and enlarge; Eubank & Caldwell, Archts., Boxley Bldg.

W. Va., Huntington—Paul Dober, 813 Fourth Ave., owner of Dickinson Bldg., recently burned, announced reconstruction will

soon start; occupied by Dickinson Furniture Co., Ben Lubin, owner.

Theaters

Ark., Fort Smith—W. D. Sacker, Pres. of Sacker Amusement Co., Beaumont, Tex., planning to erect theater building on Garrison Ave.

Ga., Homerville—W. V. Musgrove, F. M. Dickerson and others, accepted plans for \$20,000, 40x100-ft. theater, on site of burned Liberty Theater.*

Ga., Savannah—Lucas Theater, Arthur Lucas, 32 Abercorn St., will install refrigeration plant to cost \$100,000.

Miss., Tylertown—Sellman Brothers, McComb, will erect theater building.

Tex., Corpus Christi—L. G. Collins, Nueces Bay Heights, has plans by William J. Westfall, Palace Theater Bldg., for remodeling theater; \$20,000, brick, tile and reinforced concrete, 50x150 ft.

Tex., Llano—S. D. Rainier and George Shaw plan \$20,000, 1-story, auditorium and balcony, 34x90 ft., Spanish type, stucco theater building.

Warehouses

Ga., Valdosta—W. R. Youles asking bids for 160x220-ft. tobacco warehouse on Georgia & Florida Railroad tracks.

Miss., Hattiesburg—L. A. Stewart, Carter Bldg., Hattiesburg, and W. L. Hemeter, Seminary, contemplates erecting warehouse.

Miss., Meridian—R. C. Springer, Archt., Rosenbaum Bldg., preparing preliminary plans for \$20,000, 1-story and basement warehouse for Hesson Grocery Co., 2716 Fifth St.; mill construction, built-up roof, wood floors.

Okla., Wewoka—Indian Territory Illuminating Oil Co., erect warehouse and office building, Rock Island tracks.

Va.-Tenn., Bristol—Boggs-Rice Furniture Co. plans warehouse at rear of present building on State St.

Bldg.; 1 story and basement, fluted columns, Doric type, vaults, safety deposit boxes, fireproof, 42x165 ft.; H. L. Spicer, Archt., Amicable Bldg.*

Churches

Ala., Birmingham—Vine Street Presbyterian Church let contract to Mann Bros., 2519 Tenth Ave., for remodeling building; brick, 1 story, concrete and slate roof, cost \$10,000; Geo. Gehred, Archt., 618 Lincoln Life Bldg.*

Ala., Lanett—First Baptist Church let contract for \$30,000 addition to Batson-Cook Co., West Point, Ga.; brick and concrete, wood joist, composition roof; work started.

Fla., Hollywood—St. John's P. E. Church started work on \$10,000 English type building, 17th Ave. and Buchanan St.; reinforced concrete and concrete block, stucco, 33x66 ft.; Sutton & Routt, Archts.; Fred A. Eskridge, Conslt, Archt.*

Ga., Augusta—Eve Repair Co., 852 Chafee Ave., has electrical work contract for \$100,000 Curtis Baptist Church; Scroggs & Ewing, Archts., Lamar Bldg.; Palmer-Spivey Construction Co., Contr., 16 E. Bryan St.*

Ga., Augusta—First Presbyterian Church repair building; cost \$17,000; C. B. Holley, Contr., 1510 Walton Way.

Ga., West Point—First M. E. Church, South, Geo. S. Cobb, Chmn., Bldg. Comm., let contract for \$42,000 Sunday school to West Point Iron Works; gray brick and concrete, limestone trim, wood joist, 3 stories, slate roof; Dennis & Dennis, Archts., 556 Mulberry St., Macon; Dunham system heating, Service Co., Inc., 1522 First Ave., Columbus.*

Ky., Lexington—Porter Memorial Baptist Church, Rev. A. L. Goodrich, Pastor, 730 S. Limestone St., let contract to George Hoskins Lumber Co., 611 E. Third St., for \$50,000 to \$60,000 Gothic type auditorium; brick and steel, 3 stories, 75x50 ft., wood floors, stone foundation, concrete basement, 8 art glass windows, accordion doors; John T. Gillig, Archt., Fayette Bank Bldgs. See Want Section—Building Materials and Equipment.*

La., Shreveport—St. Johns Church let contract at \$275,576 to Central Contracting Co., Athletic Bldg., Dallas, Tex., for building, Texas Ave.; reinforced concrete, brick and stone, Barrett specification roof, stained and plate glass, gas-steam radiation; Edw. F. Neild, Archt., Merchants Bldg.

Mo., Richland—Church of Christ erect \$10,000 to \$12,000 church and Sunday school to replace burned structure; brick and cement, 1 story and basement, 40x60 ft., pine floors, cement foundation; furnishings, equipment, etc., \$3000; J. W. Trow, Archt. Address H. R. Cowen.*

N. C., Winston-Salem—Friends Church, erect \$35,000 building, Sixth and Broad Sts.; brick, 2 stories, asphalt roof; main auditorium seat 350, Sunday school auditorium 300; Northrup & O'Brien, Archts., Starbuck Bldg.; Fogle Brothers Co., Contr.

Okla., Fairfax—Sacred Heart R. C. Church erect \$45,000 church and school, Tall Chief Avenue; brick, tile and stucco, 2 stories, 80x220 ft., wood and composition floors, concrete foundation, tile roof; Harold Ginemo, Archt.-Contr., Norman. See Want Section—Building Materials and Equipment.*

S. C., Greenville—Central Baptist Church let contract for \$45,000 Sunday school to Carolina Construction Co.; fireproof, hollow tile and brick veneer, 3 stories; accommodate about 1000; Thos. Reid, Archt.*

Tenn., Liberty—Baptist Church plans \$12,000 building; brick and stone, 1 story, composition shingle roof; day labor. Address The Pastor.

Tenn., Nashville—First Baptist Church, Seventh Ave., S., and Broad St., let contract at \$105,000 to Zopf Construction Co., Ind. Life Bldg., for Sunday school; brick and frame, steel girders and trusses, 3 stories and basement, Rezilite and hardwood floors, stone foundation, composition built-up roof; Hart, Freeland & Roberts, Archts., Ind. Life Bldg.; wrecking bldgs. on site. See Want Section—Building Materials and Equipment.*

Tex., Bryan—First Baptist Church, W. S. Powell, Chmn., Bldg. Comm., let contract to J. H. Nash for \$60,000 building; brick and stone, 2 stories, 89x118 ft.; T. J. Galbraith, Archt., 517 Slaughter Bldg., Dallas.*

Tex., Linden—New Brick Methodist Church erect \$15,000 building; J. J. Hardy, Contr., Marshall.

Va., Lynchburg—St. Johns P. E. Church let contract for \$86,000 building to W. K. Barger, Peoples Natl. Bank Bldg.; Gothic type; remodel present structure.

Va., Richmond—St. Stephen's P. E. Church let contract to Jones & Conquest, Amer. Nat. Bank Bldg., for \$90,000 building; Gothic type, rough stone, 160x50 ft., rein. concrete and tile floors, slate roof; address proposals on furnishings, equipment, etc., \$20,000, to Frank R. Watson, Archt., 1520 Locust St., Philadelphia, Pa.; foundation in. See Want Section—Building Materials and Equipment.*

Va., Suffolk—Christian Church let contract to Nussman & Cox, Nat. Bank of Suffolk Bldg., for additions and alterations to Sunday school; cost \$93,000, 3 stories, 38x162 ft., wood and composition floors, concrete foundation, tin and asphalt roof; Herbert L. Cain, Archt., Grace Securities Bldg., Richmond; address equipment proposals to Dr. W. W. Staley, 216 N. Main St.; roofing and sheet metal, Carl Schadel, 302 S. Saratoga St., both Suffolk; heating, Johnston & Longworth, electrical work, W. H. Jinks, 619 East Main street; millwork, Miller Manufacturing Co., 600 Stockton street, all Richmond; plumbing, Branch & Andrews, 7-9 East Washington St.; brownstone coping and sills, Archibald Ogg, Glasgow street, both Portsmouth; Abernethy stone partition, General Tile Co., Inc., 837 West 46th St., Norfolk. See Want Section—Building Materials and Equipment.*

Va., Newport News—First Presbyterian Church started work on \$75,000 addition; 3 and 2 stories; Sunday school rooms, kitchen, social rooms, athletic space. Address The Pastor.

City and County

Fla., Howey—City erect fire dept. building; W. E. Boyce & Co., Contrs.

Fla., Miami Beach—City let contract to H. A. Peters Co., Washington Ave. and 11th St., for \$235,000 city hall, 12th St. and Washington; steel and rein. concrete, fireproof, first and second floors 50x176 ft., 6 tower floors 50x50 ft., rein. concrete floors, rein. concrete and pile foundations, tile and slab roof; furnishings, equipment, etc., \$30,000; Martin L. Hampton, Archt., Royal Palm Hotel Casino; L. B. Taylor, Engr., Olympia Bldg.*

Fla., Panama City—City let contract to Mr. Woodcock for jail work; cost \$100,000. Address City Council.

Tenn., Gainesboro—Jackson County Board of Commrs. let contract for \$70,000 courthouse to Maugans-Bell Co., Murfreesboro; reinforced concrete and brick, 70x70 ft., cement and tile floors, native stone foundation,

BUILDING CONTRACTS AWARDED

Association and Fraternal

Ala., Avondale, Birmingham—Avondale Lodge, A. F. & A. M., has low bid from E. R. Maynard, 2318 Ensley Ave., for temple; D. O. Whilden, Archt., 515 N. 21st St., Birmingham.*

Bank and Office

Ala., Birmingham—Alabama Home Building & Loan Assn., 2026 First Ave., let contract to Skinner Maxwell Construction Co., Tuscaloosa, for remodeling building, 2926 N. First Ave.; Wm. Leslie Welton, Archt., Amer. Trust Bldg.*

N. C., Greensboro—W. W. Dick, 246 Bellemeade St., has heating and ventilating contract for \$500,000 addition to Exchange National Bank; Harry Barton, Archt., Jefferson Bldg.; Angle-Blackford Co., Contr., Amer. Bank Bldg.*

N. C., Winston-Salem—Wachovia Bank & Trust Co., F. H. Fries, Pres., let contract for addition to Trade Street Branch to Chas. F. Benbow.

Tex., Austin—Security Trust Co., F. W. Stenberger, Pres., remodel building, Eighth St. and Congress Ave.; partitions, plate glass front, marble columns, oak floors, bank fixtures, vault; Roy L. Thomas, Archt., 904 Littlefield Bldg.; C. W. Moore, 609 W. 16th St., gen. contract at \$12,544; wiring, John L. Martin, 410 Congress, \$1638; plumbing, John Wattinger, 3805 Avenue H, \$395.

Tex., Beaumont—Warren Co., Inc., 1214 McKinney street, has vacuum steam heating and plumbing contract for \$600,000 Goodhue Building Co. office building, Pearl and Crockett streets; concrete piles, Raymond Concrete Pile Co., Keystone Bldg., both Houston, Tex.; 3 gearless, variable voltage control elevators, American Elevator and Machine Co., Insurance Bldg., rein. concrete work and excavation, Christy-Dolph Construction Co., Central Bank Bldg., both Dallas, Tex.; original Minnesota pink granite, Engineering Sales Co., Minneapolis, Minn.; address equipment proposals to J. F. Goodhue; address proposals on sub-contracts to Tisdale, Stone & Pinson, Archts.; managing and superintending contract to Nichol & Sneed, all 376 Crockett St., Beaumont.*

Tex., Waco—Citizens National Bank, Walter G. Lacy, Pres., let contract for \$100,000 bank and office building, 514-16 Austin Ave., to J. E. Johnson Construction Co., Cameron

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pitch and gravel roof; Tisdale, Stone & Pinson, Archts., 419 Ind. Life Bldg., Nashville; 1-pipe steam heating and plumbing by J. M. Anderson, Cokerville.*

Tex., Beaumont—Lee Savage Paint Co., Springfield, Mo., has painting and decorating contract for \$300,000 city hall; F. W. Steinman & Son, Archts., San Jacinto Life Bldg., Beaumont; J. H. Reddick, Contr., Kennedy Bldg., Fort Smith, Ark.*

Tex., Childress—City let contract at \$43,000 to Chas. Blakowski for municipal building; brick, stone trim, 2 stories, 75x110 ft., terrazzo, concrete and wood floors, rein. concrete foundation; Wyatt C. Hedrick, Archt., First Nat. Bank Bldg., Fort Worth; F. F. DuBose, Engr.*

Dwellings

Ala., Birmingham—Mountain Brook Estates, Inc. care J. C. Halstead, Archt., Lincoln Life Bldg., erect frame and stone veneer dwelling; 2 stories, 104x25 ft., composition roof, vapor heat, 2 tile baths; L. E. Ford, Contr., 2117 N. First Ave.; plumbing and heating, F. R. Heck, 2028 Humbolt Ave.; wiring, Knight Electric Co., 2023 N. Fourth Ave.

Ala., Dothan—G. H. Malone, care First Nat. Bank, let contract for \$30,000 residence to H. H. Brown; hollow tile and brick veneer, 2 stories and basement, oak floors, concrete foundation, slate and composition roof; Warren, Knight & Davis, Empire Bldg., Birmingham, Ala., and Chandler C. Yonge, 500 Amer. Nat. Bank Bldg., Pensacola, Fla., Asso. Archts.*

Ala., Ensley—Mrs. J. W. Brigman, 1923 Avenue H, let contract to E. R. Maynard, 2318 Ensley Ave., for brick residence; 2 stories, 52x47 ft., tile roof, furnace; J. E. Salie, Archt., 2223 Age-Herald Bldg., Birmingham.

Ala., Huntsville—First Baptist Church, Dr. John J. Milford, Pastor, erect 2-story parsonage; 2 stories, about 8 rooms, 2 baths, Frigidaire; E. L. Love, Archt.; Smith & Flak, Contrs., plumbing, heating, wiring, Hutchens Co.*

Fla., Daytona Beach—A. B. Melville, N. Peninsula Drive, let contract for \$12,000 Colonial residence to C. F. Wetherell; weatherboard, spruce laths, yellow pine frame, asbestos shingle roof, copper gutters and down spouts, oak floors, 12-in. cypress, Arcola hot water heat, 1-car garage with servants' quarters; Riggs & Wray, Archts.-Engrs., Davis Bldg.

Fla., Jacksonville—Stewart Cartledge erect 2-story brick veneer residence, Gilmore street near Osceola street; cost about \$10,000; David W. Johnson, Contr., 2309 Post street.

Fla., Howley—Dr. E. C. Taylor erect residence; W. E. Boyce & Co., Contrs.

Fla., Panama City—Webb & McBride erecting \$15,000 dwelling.

Fla., Yalaha—Raymond J. James erecting \$20,000 residence, Lake Harris.

Ga., Atlanta—S. L. Adams, Jr., Decatur, started work on 7-room brick bungalow, 13 Exeter Rd., and on dwelling, 14 Fairfield Drive, both Avondale Estates.

Ga., Atlanta—N. E. Brownlee started work on residence, 50 Clarendon Ave., Avondale Estates.

Ga., Atlanta—M. A. Crumley started work on \$10,000 residence, 79 Clarendon Ave., Avondale Estates.

Ga., Atlanta—B. F. Forkner started work on 2-story dwelling, 17 Kingstone Rd., Avondale Estates.

Ga., Atlanta—J. Truman Freeman, Jr., Avondale Estates, started work on \$10,000 dwelling, 50 Clarendon Ave.; also on dwelling, Berkeley Rd., Avondale Estates.

Ga., Atlanta—E. R. Thomas started work on \$12,000 residence, Clarendon Ave., Avondale Estates.

Ga., Columbus—L. G. Bowers, Front St., erect 6 dwellings, Overbrook; Marshall Morton, Contr., care Owner.

Ga., Columbus—S. G. & C. R. Simons erecting 11 brick and frame bungalows, Brookhaven.*

Ga., Columbus—Abe Straus erect \$14,000 residence, Peacock Ave.; brick veneer, hardwood floors, tile porches and baths, tile roof, steam heat; John C. Martin, Jr., Archt., 1503 Pine Drive; J. H. Tillery & Son, Contrs.

Ga., Columbus—A. S. Woolfolk started work on Colonial dwelling, St. Elmo Place; brick veneer, 1 story, composition shingle roof, tile porches and bath, hardwood floors; also has contract for English type dwelling, Weracoba Heights; weatherboard, stucco, half timber, composition shingle roof, hard-

wood floors, tile porches and bath; John C. Martin, Jr., Archt., 1503 Pine Drive.

Ga., Thomasville—Mr. Roundtree erect Colonial residence, Wildwood; weatherboard and shingle, Creole-Dipt variegated shingle roof, hardwood floors, tile bath; T. W. & E. O. Smith, Archts., Thomasville, and Georgia Home Bldg., Columbus; J. M. Culpepper & Son, Contrs.

Ky., Owensboro—Hugh G. Smith, 1601 Triplett St., for brick veneer residence, 19th Triplett, for brick veneer residence, 19th and Frederica Sts.; 2 stories, 43x33 ft., hardwood floors, concrete foundation, Richardson's roof; plans by Contr.*

La., New Orleans—V. Grago erect 3 double cottages, Fig St., near Audubon St.; 24x46 ft., slate roofs; total cost about \$10,000; J. C. Pore, Contr., 3735 S. Galvey St.

La., New Orleans—Mrs. Sophia Marcy and Miss Hazel Marcy, Louisiana Ave. near St. Charles St., erect 2-story duplex; A. H. Ehrensing, Archt., 327 St. Charles; Ruffin J. Walker, Contr., 2232 Cadiz St. (Owner lately noted as People's Homestead Assn.)*

La., New Orleans—Henry Ferrand erect 2-story duplex, Leda St. near Esplanade Ave.; 30x65 ft., Johns-Manville roof; cost about \$10,000; Harang & LeBlanc, Inc., Contrs., 1347 Moss St.

La., New Orleans—Salvatore La Rocca, 4320 Willow St., wants sub-bids on roofing, plastering and stucco work for 2-story duplex, 3017-19 Robert St.; 28x34 ft.

La., New Orleans—Metropolitan Homestead Assn., Hibernia Bldg., erect \$10,000 double 2-story building, St. Ann and Orleans Sts.; John M. Werling, Contr., 2909 St. Bernard St.

La., New Orleans—Mrs. Geo. W. Stem, 7724 Burthe St., erect \$28,500 duplex, St. Charles Ave. and Webster St.; Jensen Construction Co., Contr., 3021 Robert St.

La., New Orleans—Mrs. Marie Ables erect \$10,000 duplex, 2131 S. Carrollton Ave.; 2 stories, 27x59 ft., composition roof; R. H. Kettingham, Contr., 1128 Jena St.

Md., Baltimore—Lithium Realty Co., 20 E. Lexington St., erect 10 brick dwellings, S. side Baltimore St. E. of Hilton St.; 2 stories, 14x30 ft., slag roofs, steam heat; total cost \$20,000; G. H. Davidson, Archt.-Contr.

Md., Baltimore—John Dragunas erect 4 frame dwellings, North side Valley View avenue, East of Anthony avenue; 1½ stories, 28x29 ft., hot water heat; total cost \$12,000; F. E. Beall, Archt., 306 St. Paul street; Geo. H. Bopp, Contr., 2561 Frederick avenue.

Md., Baltimore—Owners Realty Co., 2 E. Lexington St., erect 12 brick dwellings, N. E. corner Mosher St. near Ellicott Drive; 2 stories, 20x32 ft., hot air heat; total cost \$36,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds.*

Md., Baltimore—Chas. E. McCoy erect \$20,000 brick residence, St. Dunstan Rd. near Charles Street Ave.; 2½ stories, 55x41 ft., slate roof, vapor heat; J. W. Wolcott, Archt., 18 E. Lexington St.; Henry T. Sorrell & Son, Contrs., 4112 Kathland Ave.

Md., Baltimore—Chas. A. Flack, 601 S. Charles St., erect \$16,000 residence and garage, Mayfield and Norman Aves.; 30x50 ft. and 20x20 ft., hot water heat; Arnold Bros., Archts.-Contrs., Sulphur Spring Rd., Lansdowne.

Md., Baltimore—J. J. Hurst, 7 St. Paul St., erect 5 frame dwellings, Edgemere St. and Edgemere Ave., Clover Rd. near Cornhill Rd., and Park Ave., near Greenspring Ave. 1½ stories, 26x30 ft. and 26x26 ft., hot air and hot water heat; total cost \$15,500; J. K. Vickers, Archt., 502 Woodlawn Rd.; owner builds.

Miss., Clarksdale—Max Maas erect brick veneer residence, W. Second St.; stone trim, 2 stories, tile baths and solarium, hardwood floor, gum interior finish, cedar-lined closets; Estes W. Mann, Archt., Cotton Exchange Bldg., Memphis, Tenn.; J. F. Brown, Contr.

Miss., Hattiesburg—H. S. Haggerty laying foundation for \$60,000 residence; E. C. Hearon & Sons, Archts.; W. W. Cayton in charge of work; owner buys materials.

Mo., Clayton, St. Louis—C. G. Meyer, 6250 Enright St., erect \$14,000 residence and garage, Wydown Blvd., Tesson subdivision; 80x56 ft.; Aug. Gruenschlag, Contr., 5964 Kennerly Ave.

Mo., Columbia—Berry, McAllister erecting \$125,000 residence; brick, reinforced concrete and steel, 2 stories, tile and oak floors, slate roof; Study & Farrar, Archts., 1367 Arcade Bldg.; Martin Engineering Co., Engr., Syndicate Trust Bldg., both St. Louis.

Mo., St. Louis—F. J. Cornwell Real Estate Co., 111 N. Seventh St., erect \$11,000 residence, 523 Midvale Ave.; brick, 2½ stories

and basement, 38x26 ft., slate roof, hardwood floors, tile bath; Nolte & Nauman, Archts., 614 Fullerton Bldg.; owner builds.

Mo., St. Louis—L. L. Horen and others, 906 N. Grand Ave., erect 8 brick dwellings, 3626-28-30-32-36-40-42-46-50 Kansas St.; 26x40 ft., composition shingle roofs, hot air heat; total cost \$28,000; S. S. Stokes, Archt., 6115 Adaline St.; V. R. Stamm, Contr., 906 N. Grand.

Mo., St. Louis—A. Mayer Realty Co., erect 12 brick dwellings, 6200 block Fyler St.; 1 story, 24x32 ft., composition shingle roofs, hot air heat; total cost \$24,000; H. Mayer, Archt., both 4608 Gravois St.; owner builds.

Mo., St. Louis—Dr. J. M. Brown, 3032 Walton place, erect \$10,000 brick residence and garage, 4918 Lotus St.; 2 stories, 36x28 ft., and 18x19 ft., slate roof and composition roof, hot water heat; C. L. Thurston, Archt., 130 Kenilworth Place; owner builds.

Mo., St. Louis—H. Tyrer erect 4 brick dwellings, 5725-29-33-37 Finkman St.; 1 story, 26x40 ft., shingle roofs, hot air heat; total cost \$14,000; Tyrer & Schulte, Contrs., all 6040 Carlsbad St.

Mo., St. Louis—W. S. Drozda Realty Co., erect 12 brick dwellings, 3900 block Lawn St.; 1 story, 25x43 ft. and 21x42 ft., composition shingle roofs, hot air heat; total cost \$36,000; Mr. Avis, Archt., both 4006 Chouteau St.; owner builds.

Mo., St. Louis—J. Chas. Mueller, 3500 Hebert St., erect 2 brick and frame dwellings, Normandy Grove; 2 stories and basement, 34x28 ft. and 42x30 ft., hardwood floors, stone foundations, tile baths, slate roofs, hot water heat; Nolte & Nauman, Archts., 614 Fullerton Bldg.; owner builds.

Mo., Webster Groves, St. Louis—Holdaway Construction Co., 321 Int. Life Bldg., erect two \$6000 dwellings, 430-34 S. Gore Ave.; tile and stucco, 1 story and basement, 26x36 ft., hardwood floors, tile baths, hot air heat; day labor; laying foundation.

Okla., Oklahoma City—Jas. Brazell, Fidelity Nat. Bank Bldg., let contract for \$25,000 residence to Smiser Construction Co., 609 N. Hudson St.; solid brick, 2 stories, 30x37 ft., oak floors, concrete foundation, tile roof; Harry Reynolds, Archt., 213 Mercantile Bldg.*

S. C., Whitmire—Aragon-Baldwin Mills let contract for 15 employees' dwellings to Bailey Builders Supply Co., Union; plumbing and wiring in gen. contract.*

Tenn., Knoxville—T. M. Brownfield, Bldr., Empire Bldg., started work on English type dwelling, 3300 block Magnolia avenue; brick, 2 stories, 7 rooms, 2 baths, concrete basement, steam heat, built-in features, garage.

Tenn., Memphis—J. Jones, 1608 Eastmoreland St., erect \$10,000 brick veneer residence, 885 University Place; 2 stories and basement, 35x60 ft., composition shingle roof, oak floors, tile bath, steam heat, frame garage; F. E. Meacham, Contr., 1042 Roland St.

Tenn., Nashville—Tom H. Semple, Stokes Lane, let contract at \$9868 to W. H. Caruthers, S. Ninth St., for brick veneer residence; 1 story, 32x60 ft., hardwood floors, concrete block foundation, composition shingle roof; Geo. D. Waller, Archt., 911 Ind. Life Bldg.*

Tex., Amarillo—Otis Phillips, 1000 Jefferson St., erect \$30,000 residence; 2 stories, 40x56 ft.; E. F. Rittenberry, Archt., 303 Blackburn Bldg.; Ross Williams, Contr., 1509 Ong St.; heating, Allen Engineering Co.; wiring, Broome Electric Co., 102 W. Sixth St.; brick, Acme Brick Co., Amarillo Bldg.

Tex., Austin—Dr. C. Buford Willer let contract for \$15,000 residence to Brydson Lumber Co., 19th and Guadalupe St.; brick veneer, 2 stories, tile baths; H. F. Kuehne, Archt., 824 Littlefield Bldg.

Tex., Dallas—Dallas Plumbing and Heating Co., McKinney Ave., has heating and plumbing contract for \$15,000 residence for Geo. Allen; electrical work, Adolph Burger, Noble St.; steel, Mosher Steel & Machine Co., 900 S. Austin St.; slate roofing, Barnett Roofing Co., McKinney Ave.; Fonzie E. Robertson, Archt., 1609 Republic Bank Bldg.; Fred McQueen, Contr., 2904 Hall St.

Tex., Galveston—R. H. Maupin, Cedar Lawn, erect \$10,000 residence; hollow tile and frame, 1½ stories, 22x48 ft., Genasco shingles, concrete foundation; J. W. Woodruff, Contr.

Tex., Houston—E. N. Benson, Post-Dispatch Bldg., erecting French type residence, Del Monte Drive, River Oaks; H. A. Salisbury, Archt.; Benson-Hall Co., Contr.

Tex., Houston—T. M. Norsworth, First Nat. Bank Bldg., let contract to Benson-Hall Co. for Colonial residence, River Oaks; white painted brick, 7 rooms; H. A. Salisbury, Archt.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Houston—Edmunds Pincoffs erect \$65,000 residence, North Boulevard, Broad-acre; French chateau type, 14 rooms; Bird-sall P. Briscoe, Archt., Second Nat. Bank Bldg.; Thos. T. Hopper Co., Contr., Post-Dispatch Bldg.

Tex., Houston—Floyd W. Taylor, 1302 W. Bell St., erect residence, Pelham Drive, River Oaks; Benson-Hall Co., Contr.

Tex., Houston—Mrs. M. M. Tuffy erect \$11,500 residence, 2407 Southmore Blvd., Riverside Terrace; 9 rooms; 2 stories, brick veneer, shingle roof; J. W. Lander, Contr., 2418 Prospect street.

Tex., Houston—Carl M. Cole started work on \$20,000 residence, E. 24th St.; brick veneer, 7 rooms; J. H. Nash, Contr.

Tex., San Antonio—E. W. Appedole, 211 Travis Bldg., erect English type stucco residence, Furr Drive, North Woodlawn Terrace; Wilson & Miller, Contrs.

Tex., San Antonio—B. B. Hunter, care Duffin-Hunter Laboratory, City Natl. Bank Bldg., erect \$10,000 frame Colonial residence, West Grammercy Place; Wilson & Miller, Contrs.

Tex., San Antonio—Hugo Stein erect 4 dwellings, West Grammercy Place, in addition to 2 under construction.

Hospitals, Sanitariums, Etc.

Mo., Kansas City—Newberry Electric Co., 306 Hall Bldg., has electrical work contract for St. Mary's Hospital nurses' home; plumbing, Dunlap & Dunlap, 1002 E. 19th St.; roofing, Western Roofing Co., 3113 S. W. Boulevard; collapsible forms, Collapsible Joist Form Co., 224 Finance Bldg.; sand, Stewart Sand Co., 615 Amer. Bank Bldg.; Wilkinson & Crans, Archts., Interstate Bldg.; Swenson Construction Co., Contr., 2nd floor Shubert Theater Bldg.*

Tex., Temple—Kings Daughters Hospital, Dr. J. E. Robinson, Chmn., Bldg. Comm., let contract for \$85,000 clinic and hospital, 22d St. and Avenue C, to A. W. Fowlkes, Schulenberg, Tex., present address Temple; concrete, steel and brick, 3 stories and basement, 256x34 ft.; plans by Contr.; Mr. Watson, Engr., Waco; address proposals on furnishings, equipment, etc., \$30,000, to Dr. Robinson, Box 405. See Want Section—Building Materials and Equipment.*

Hotels and Apartments

Ga., Augusta—George N. Kirsch, 2550 Central Ave., let contract to Havard Contracting Co. for remodeling old Y. M. C. A. building, Greene and Ninth Sts., for hotel.

Ga., Thomasville—H. D. Atkinson, Contr., and associates, will erect \$265,000, 8-story, reinforced concrete, brick and tile, fireproof, 120x95 ft. commercial hotel; tile and marble-oid floors, concrete foundation, built-up roof; now organizing company; equipment and furnishings cost \$40,000; Frank A. Winn, Jr., Archt., 706 Franklin St., Tampa. (See Ky., Lexington—A. G. McGregor, Contr., 353 Lexington Ave., erecting \$66,000, 3-story and basement, 44x114 ft., brick and tile apartment building, Lyndhurst Place; stone foundation, oak floors, composition roof; James A. Milton, 341 Rose St., steam heat and plumbing; O. E. Lyons, 300 E. Maxwell St., electric work; owner builds. (See Want Section—Building Materials and Equipment).*)

La., New Orleans—E. Mannino let contract to Saputo & Governall, 3208 Bienville St., for \$11,000, 2-story, four-plex, S. Claiborne Ave.; DeLisle & Orr, Archts.

Miss., Columbus—Mrs. Anne Gunter, owner of Commercial Hotel, let contract to E. G. Parrish Construction Co., Jackson, Tenn., for rebuilding and expansion; \$125,000, 3 stories, brick and terra cotta; R. A. Heavener, Archt., Jackson, Tenn.*

Miss., Meridan—Meridan Hotel making extensive improvements and remodeling. Address The Propr.

Mo., Jefferson City—Joe Schmidli, Contr., received contract to furnish over 12,000 cu. yds. crushed limestone for Missouri Hotel, High and Adams Sts.; J. J. O'Brien, Contr., Central Natl. Bank Bldg., St. Louis.*

Mo., Kansas City—Dr. G. Wilse Robinson, 937 Bialto Bldg., let contract to Jewell Realty Co., 622 Chambers Bldg., for remodeling brick building at cor. 13th St. and the Paseo, for 30 apartments; also erect 3-story, 132x132 ft. fireproof building adjoining, contain 75 kitchenette suites and lobby; P. T. Drotts, Archt., 300 Reliance Bldg.

Mo., St. Louis—A. R. Darr, Owner, Builder and Archt., 4300 Dewey St., erect four 2-story, brick, 36x55 ft. tenements, 5015-29 S. Broadway; \$30,000, tar and gravel roofs, hot air heat.

Mo., St. Louis—M. B. Herzog, 618 Chestnut St., let contract to Jones Bros. Construction Co., 5549 Wells St., for \$10,000, 2-story, brick, 44x40 ft. tenement, 3015-17 LaSalle St.; tar and gravel roof; Gerhard Becker, Archt., Ferguson, Mo.

Mo., St. Louis—A. Morganstern, 1152 Bayard St., erect two 2-story, brick, 34x52 ft. tenements, 4368-74 Claxton St.; \$18,000, composition roofs, furnace heat; owner builds.

Mo., St. Louis—H. L. Conner, 5537 Waterman St., let contract to A. C. Smith, 1337 S. Vandeventer St., for \$12,000, 2-story, brick, 33x57 ft. tenements, 2616 N. Newstead St.; tar and gravel roof, hot air heat; B. J. Dirks, Archt., Langan Taylor Bldg.

Mo., St. Louis—J. G. Urban, 2166 Tower Grove, erect three 2-story, 24x45 ft., brick tenements, 4981-5 Tholoan St.; \$15,000, composition roofs; owner builds.

Mo., University City, St. Louis—Mars Realty Co., 209 International Life Bldg., let contract to H. H. Sims Construction Co., 5506 Natural Bridge Rd., for four 2-story, brick, 28x46 ft. single flats, 7071-81 Dartmouth St.; \$32,000, concrete and composition shingle roofs, hot water; Oliver Popp, Archt., Arcade Bldg.

Mo., University City, St. Louis—F. J. McCarthy, 5818 Page St., let contract to Walsh & Deilenheim, 4108 Jennings Road, for two 2-story, brick, 26x50 ft. flats and garages, 7230-4 Forsyth Blvd.; \$13,000, composition shingle roofs, hot water heat; F. J. McCarthy, Archt.

N. C., Asheville—Langren Hotel, John H. Enwright, Mgr., remodeling and refurnishing.

Okla., Earlboro—E. F. Renner let contract to J. H. Frederickson Construction Co., 13th and Shartel Sts., both Oklahoma City, for \$100,000, 3-story, fireproof, 100-room, 75x100-ft. Renfred Hotel, Main St. and Park Ave.

Okla., Tulsa—Frank T. Pope, Box 1465, let contract to Waldo T. Freeman, Bliss Bldg., for \$38,000, 4-story, brick and tile, 70x40-ft., 12-apartment building, 1303 S. St. Louis St.; poured concrete foundation, oak floors, equipment and furnishings cost \$1200; John Star, Archt. See Want Section—Building Materials and Equipment.*

Tex., Houston—Bell Construction Co., 3511 McKinney St., started work on \$50,000, brick veneer, 6-apartment building, 1300 block Bartlett St.; also erecting \$40,000, brick veneer, 4-apartment house in same block.

Tex., Laredo—Harry L. Fansler let contract to H. B. Zachry for \$70,000, 2-story, brick, tile and stucco apartment building.

Tex., Mexia—J. K. Hughes and Jack Womack, owners of Majestic Hotel, expending \$10,000 for improvements.

Tex., Mineral Wells—Inge & Burgher, Inc., Contrs., completed basement walls of \$1,500,000, 8-story, steel and concrete frame, 433x200-ft. resort hotel, to be operated by Baker Hotel Co., T. B. Baker, Pres., Gunter Hotel, San Antonio; concrete floors, tile roof; Wyatt C. Hedrick, Archt., First Nat. Bank Bldg., Fort Worth; contract for 4 high-speed elevators not let; excavation by Vilbig Brothers, Paris St., Dallas; reinforcing steel, Texas Steel Co., S. Hemphill St., Fort Worth, and Austin Bros., 1815 Combs St., Dallas; cement, Trinity Portland Cement Co., Santa Fe Bldg.; concrete aggregate, H. T. Farrell, Republic Bank Bldg., both Dallas. See Want Section—Building Materials and Equipment.*

Va., Richmond—Davis Brothers, Inc., 1716 Summit Ave., started work on \$125,000, fireproof, English design 15-family apartment building at 3416 Monument Ave.

Miscellaneous

Ark., El Dorado—C. B. Rumph started work on \$30,000 home for Rumph Mortuary.

Ga., Blackshear—T. J. Darling, Waycross, has contract for 2-story undertaking establishment.

La., New Orleans—L. A. Muhleisen & Son, 1833 Dryades St., let contract to J. T. Kern, 3110 Cleveland Ave., for \$18,000, 2-story, frame, 43x73 ft. undertaking establishment, Dryades and Rampart Sts.; brick foundation, pine floors, tile roof; B. J. Schneider, Archt., 2031 Josephine St.; equipment and furnishings cost \$1600. (See Want Section—Machinery and Supplies).*

Railway Stations, Sheds, Etc.

Texas—Southern Pacific Lines, R. W. Barnes, Ch. Engr., Houston, erecting Spanish type freight and passenger depot at Wilsa.

Tex., Amarillo—Panhandle & Santa Fe

Railway Co., M. C. Blanchard, Ch. Engr., will remodel depot, using day labor; \$25,000, brick and mill, composition roof.

Tex., Harlingen—Southern Pacific Lines, R. W. Barnes, Ch. Engr., Houston, let contract to Worden-Henry Construction Co. for \$20,000 stucco and hollow tile freight station.

Tex., McAllen—Southern Pacific Lines, R. W. Barnes, Ch. Engr., Houston, let contract to Ware Co., El Paso, for Spanish type, hollow tile and stucco, 40x138-ft., \$37,000 depot.

Schools

Ky., Pikeville—Pike County Board of Education let contract to J. S. Britton & Son, Huntington, W. Va., for \$84,000, 3-story and basement, brick girls' dormitory for Pikeville High School.

La., Ruston—Louisiana Polytechnic Institute let contract to H. Cleveland, Giddens Lane Bldg., Shreveport, at \$93,506, for erection of library building, addition to teachers' training building and alterations to girls' gymnasium; Edward F. Neild, Archt., Merchants Bldg., Shreveport.*

La., Scotland—Southern University let contract to Connor, Bryant & Bell, Baton Rouge, at \$75,399, for 2-story, brick and stone trim science building, and 1-story, brick auditorium; composition roof, steam heat; Favrot & Livaudais, Archts., Hibernia Bldg., New Orleans.*

La., Shreveport—Dodd Foundation Co. recently let contract to Glassell-Wilson Co., Inc., P. O. Box 1883, at \$166,174, for 3-story reinforced concrete and steel Administration Building, first unit of Girls' Baptist College, Oakley Drive, South Highlands; 60x250 ft., concrete foundation, slate roof; Cahn Electric Co., electrical work; Southern G. F. Co., Atlanta, Ga., reinforcing; Bain Bealrd, structural and ornamental steel; Clarence W. King, Archt., Giddens-Lane Bldg. (See Want Section—Building Materials and Equipment).*

La., Tallulah—Madison Parish School Board let contract to Brashears & Ruddell, Delhi, at \$75,974, for 2-story, brick and reinforced concrete, 160x151 ft. school building; plastered walls, cement finish and yellow pine floors, concrete foundation, slate roof, blackboards; J. W. Smith, Archt., Ouachita Bank Bldg., Monroe; John McAllister, Ruston, steam heating, gas and plumbing. (See Want Section—Building Materials and Equipment).*

Miss., Moorhead—C. T. Bookout, Pres. Board of Trustees, Sunflower County Agricultural High School and Junior College, let contract to Hervey Lumber Co. for \$75,000, 2-story, brick administration building; Woolsey Heating Co., Clarksdale, heating and plumbing; Williamson & Slay, Magee, electric wiring; J. M. Spain, Archt., Millsaps Bldg., Jackson; Frank R. McGeoy, Supv. Archt., Greenwood.*

Mo., Chillicothe—Chillicothe Business College, care Allen and Roy Moore, started work on \$60,000, 2-story, brick, tile and steel, 82x120 ft. gymnasium-auditorium; oak and maple floors, concrete foundation, built-up roof; no contracts to be let; R. Warren Roberts, Archt.*

S. C., Inman—Board of Trustees of Inman School District, let contract to Brittain & Strange, at \$31,475, for High School building; 12 classrooms, agricultural and domestic science departments, steam heat, shower baths, lockers; W. Paul Williams, Archt.

Tenn., Gainesboro—Jackson County Board of Education let contract to Maugans & Bell Co., Murfreesboro, at \$41,453, for brick and reinforced concrete High School building; Oemig & Nevins, Archts., 816 Independent Life Bldg., Nashville.*

Tenn., Memphis—Board of Education, G. W. Garner, Sec., 422 Goodwyn Institute Bldg., let contract to Wessell Construction Co., 1205 Union St., at \$254,910 for Junior High School building, Carr and Bellevue Aves.; Jones & Furbringer, Archts., Porter Bldg.*

Tex., Amarillo—Board of Education, George Wadill, Sec., let contract to Windsor Construction Co., at \$197,500, for 3-story, 208x200 ft., fireproof, brick, stone and concrete High School building; terrazzo, wood and tile floors, Barrett roof, concrete foundation; furnishings and equipment cost \$50,000; address equipment proposals to W. G. McKinloch, Supt. of Schools; E. F. Rittenberry, Archt., 303 Blackburn Bldg. (See Want Section—Building Materials and Equipment).*

Tex., Houston—Board of Education let contract to E. G. Maclay Co., 1511 N. Boulevard, at \$37,700, for 8-room addition and alterations to Robert Louis Stevenson School, Larkin and West Sts.; Walker Heating Co., heating and plumbing; Barden Electric & Contracting Co., 111 Main St., electrical work; Harry D. Payne, Supv. Archt., 1915 Norfolk St.*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Texarkana—J. H. Reddick, Kennedy Bldg., Fort Smith, Ark., Contr. for \$130,000, 2-story and basement, brick and reinforced concrete, 103x178-ft. Junior College, let following sub-contracts: Shaw Gas & Plumbing Co., heating and plumbing; Logan Electric Co., electrical work; P. H. Scheld, 1301 E. Third St., Little Rock, Ark., cut stone; Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago, terra cotta; Masher Steel Co., 900 S. Austin St., Dallas, Tex., reinforcing, structural, miscellaneous and ornamental iron and steel; Enoch Lumber and Mfg. Co., S. State St., Jackson, Miss., millwork; Witt, Seibert & Halsey, Archts.*

Stores

Fla., Coral Gables—James Lintaker and William F. Gaffney, Detroit, Mich., started work on business building on Ponce de Leon Blvd.; George A. Mutch, Contr.

Fla., Jacksonville—F. B. Martindale, E. 14th St., let contract to Wales Construction Co. for \$44,000 1-story brick and tile building, 14th St. between Liberty and Walnut Sts.

Fla., Miami—Ray L. Parker, Olympia Bldg., erecting \$19,000, 1-story, reinforced concrete column and beam, hollow tile walls, 100x42-ft. stores building, 5301 N. W. 17th Ave.; cement floors, concrete foundation, composition roof; D. Leonard Halper, Archt., Realty Board Bldg.; B. L. Radell, Contr., 436 N. E. 29th St.*

Fla., Tampa—Tarr Furniture Co., Russell H. Tarr, Pres., Tampa and Madison Sts., let contract to Logan Bros., 706 Franklin St., for \$400,000, 6-story, brick with terra cotta trim store building, Lafayette St. and Hyde Park Ave.; M. Leo Elliott, Archt., 706 Franklin St.

La., Jennings—Eagle Rice & Feed Mill, Crowley, erecting 50x60 ft. branch feed store.

La., New Orleans, A. M. & J. Solari, Ltd., let contract to E. W. Ullrich Glass Co., 808 Baronne St., at \$24,380, for remodeling 4-story, brick building, Royal and Iberville Sts.; Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg.

Md., Fruitland—J. I. T. Long & Co., care J. Brice Long, rebuilding 1-story, brick, 90x72 ft. store recently burned; brick foundation, cement floors, tin roof; P. G. Humes, Archt.; J. W. Windsor, Engr.; both Salis-

bury. (See Want Section—Building Materials and Equipment).*

Mo., Kansas City—Harry Goldberg Construction Co. erect \$25,000 building at 816 Troost Ave.

Mo., St. Louis—H. Kissel's Sons, 4107 W. Florissant St., started preparatory work on \$125,000, brick store building, Natural Bridge at Shreve Ave., for Edward L. Kuhs, 2831 N. Grand Ave.

N. C., Greensboro—J. V. Conyers make alterations to 2-story brick building, S. Davie St.; \$10,000; S. T. Oliver, Contr.

S. C., Columbia—Haverty Furniture Co., 1718 Main St., remodeling building at 1639 Main St.; new front, rebuild basement, first and second floors, build mezzanine balcony.

Tenn., Elizabethton—Dungan Brothers, 109 Sycamore St., let contract to R. Mankin & Co., First Natl. Bank Bldg., at \$17,600, for 2-story, brick, 50x100 ft. stores and office building, Elk Ave.; concrete foundation, concrete and wood floors, Carey built-up roof, equipment and furnishings cost \$500; J. Frank Spires, Archt., First Natl. Bank Bldg.*

Tenn., Johnson City—Adam B. Crouch started work on \$35,000, 2-story brick business building, provide 6 storerooms on Market St. side and one on Commerce St.

Tex., Coleman—R. E. L. Culp let contract for 20x60-ft. brick store building on E. Live Oak St.

Tex., Houston—D. Embesi, 1624 Westheimer St., let contract to H. H. Yates, Humble Bldg., for 85x50-ft., 2-story, brick and hollow tile store and apartment building; A. Delisle, Archt., 1908 Drew Ave.

Tex., Houston—Kropp & Reber, 5005 Blossom St., start work about April 15 on \$25,000, 1-story, concrete, stone, 125x125 ft. commercial building, Capitol and Chartress Sts.; concrete floors and foundation; private plans; L. L. Reber, Contr., 5005 Blossom St.*

Tex., San Antonio—Phil Stillman and Leo Furman let contract to W. E. Woodruff for 2-story, brick building at 1011 Caroline St.; Joseph Finger, Archt., Keystone Bldg., Houston.

Theaters

Ala., Ensley, Birmingham—Erskine Ramsey—G. B. McCormack interests, American Trust Bldg., let contract to J. F. Holley

Construction Co., 817 19th St., for \$50,000, 50x140 ft. brick theater building, Avenue E and 20th St.

Ark., Stuttgart—Arkansas Amusement Enterprises, Inc., M. A. Lightman, Mgr., 21st Ave. South, Nashville, Tenn., let contract to Holt & Noble Co. for theater building on Main St.

Fla., Chipley—J. C. Blackburn completed foundation, assembling material for brick theater building; C. C. Yonge, Archt., American Natl. Bank Bldg., Pensacola.*

W. Va., Huntington—S. J. Hyman let contract to Good Construction Co., 2901 East St., Pittsburgh, Pa., for \$800,000 theater building, Fourth Ave., between Ninth and Tenth Sts., to be operated by Keith-Albee Theater Co., 1564 Broadway, New York; Thomas W. Lamb, Archt., 644 Eighth Ave., New York; Wilbur A. Meanor, Asso. Archt.*

Warehouses

Ala., Birmingham—W. H. Pattie, Contr., 1566 N. 23rd St., erect \$10,000 storage building in North Birmingham.

Ala., Birmingham—Birmingham Realty Co., 2115 First Ave. N., started work on \$25,000, 1-story, brick, 50x157½-ft. building for Winn-Coleman Tobacco Co.

Md., Baltimore—Samuel Leibowitz, 3206 Hilton St., erect \$25,000, 1-story, brick, 50x33 ft. warehouse and office building, Warner and Bayard Sts.; slag roof; H. J. West, Archt.-Builder, Knickerbocker Bldg.

Okla., Tulsa—Allen & Scott let contract to J. R. Burnside, 4245 Cheyenne St., at \$23,000, for 1-story, brick, 100x140 ft. warehouse, 10th and Cincinnati Sts.; John V. Starr, Archt., 102 S. Owasso St.*

Okla., Tulsa—R. W. and B. E. Page, 13th and Elgin Sts., erecting \$185,000, 6-story, concrete and brick, 60x148 ft. building; Rush, Endacott & Rush, Archts., Wright Bldg.; W. R. Grimshaw Co., Contrs., Kennedy Bldg.*

Tenn., Memphis—Sheffield Steel Corp., Kansas City, Mo., received contract for 300 tons steel, to be used in \$3,500,000 mail order plant and retail department store of Sears, Roebuck & Co. for which B-W Construction Co., 720 Cass St., Chicago, Ill., has general contract.*

WANT SECTION

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to machinery, materials and supplies and construction work.

The items are classified as follows:

Machinery and Supplies

includes requests for data, prices and literature and information on machinery, equipment, materials and supplies of all kinds.

Building Materials and Equipment

comprises all classes and kinds of materials and equipment used in construction projects of every description.

Bids Asked

by States, districts, municipalities, firms and individuals, for machinery, materials and supplies of all kinds and construction work.

Machinery and Supplies

Air Compressors.—J. J. Mallonee, Box 855, Winston-Salem, N. C.—Wants air compressors.

Air Compressor.—Virginia Machinery and Well Co., Inc., 1319 E. Main St., Richmond, Va.—Wants motor driven air compressor of 300 to 600-ft. capacity, stationary or semi-portable, on rental or purchase basis and motor to operate, using 3 phase, 60 cycle, 220 or 240 volt current, air pressure desired about 100 to 125 lbs.; second-hand, good working condition.

Bagging and Ties.—Modern Machinery Co., 614 Gould Bldg., Atlanta Ga.—Wants bagging and ties for wrapping bales of cotton.

Blue Stone.—Wescaldor Service Co., 256 Pearl St., Beaumont, Tex.—Wants prices on blue stone; developing fig acreage.

Bottles.—See Containers.

Canning Plant Equipment.—Dunn Produce and Packing Co., Donna, Tex.—Wants sealer, washer, scalding, filler, cookers, boilers, exhausters, labels, cases and labeling machine, for canning plant.

Cans.—See Containers.

Can Sealer.—General Supply Co., Inc., 500 Magazine St., New Orleans, La.—Wants prices on can sealers.

Cigars and Tobacco.—Montano's Log Cabin, Houston and Solidad Sts., San Antonio, Texas—Wants prices and information on cigars and tobacco.

Cold Storage Plant.—L. W. Hardy, Escam-

bia County Commr., Dist. No. 4, Pensacola, Fla.—Wants complete data on cold storage plant, equipment, etc., with view to establishing plant; correspond with engineers.

Containers.—General Supply Co., Inc., 500 Magazine St., New Orleans, La.—Wants prices on containers for paints, including cans and small bottles with cork and sponge dauber.

Creamery.—L. W. Hardy, Escambia County Commr., Dist. No. 4, Pensacola, Fla.—Wants complete data on establishing creamery, equipment, etc., with view to establishing plant; correspond with engineers.

Crushers.—See Mining Equipment, etc.

Deep Well Pump.—Virginia Machinery and Well Co., Inc., 1319 East Main street, Richmond, Va.—Wants deep well centrifugal pump, based on extending pump 200 to 250 ft. in well, with vertical motor, 3 phase, 60 cycle, 220 or 240 volts.

Dragline.—See Shovel.

Dry Kilns.—Blue Ridge Furniture Co., Inc., Buchanan, Va.—Wants prices on dry kilns.

Engines (Oil).—J. J. Mallonee, Box 855, Winston-Salem, N. C.—Wants oil engines.

Excavator.—Jackson Machinery Co., Milsap Bldg., Jackson, Miss.—Wants used excavator, either Sauerman or similar machine; state price; Mississippi or Louisiana delivery.

Farm Implements.—Wescaldor Service Co., 256 Pearl St., Beaumont, Tex.—Wants prices on farm implements for cultivation of figs.

Feed Water Heater.—Gray Bros. Excelsior

Co., Woodford, Va.—Wants one coil feed water heater for 100 h. p. boiler.

Fertilizer.—Wescaldor Service Company, 256 Pearl St., Beaumont, Tex.—Wants prices on fertilizer and lime, used in development of fig acreage.

Food Products.—Fernando Ojeda Sancho, Quantanamo, Cuba.—Wants data on food products, etc.; with view to representing exporters.

Furniture (Office), etc.—L. A. Muhleisen & Son, undertakers, 1833 Dryades St., New Orleans, La.—Wants prices on rugs, shades, office furniture, for \$18,000 building.

Garage Equipment.—W. R. Winkler, Boone, N. C.—Wants prices on garage equipment.

Hardware, etc.—Fernando Ojeda Sancho, Quantanamo, Cuba.—Wants data on hardware, heavy hardware, etc.; with view to representing exporters.

Holists.—See Mining Equipment, etc.

Jointer.—See Sander, etc.

Labeling Machine.—See Canning Plant Equipment.

Labels.—General Supply Co., Inc., 500 Magazine street, New Orleans, La.—Wants prices on lithographed stock labels.

Labels.—H. A. Meetze, Cashier, the National Bank of Leesville, Leesville, S. C.—Wants labels for canning plant products.

Lime.—See Fertilizer.

Metal Shelf Supports.—J. C. Gordon, Contr., Waxhaw, N. C.—Wants metal shelf

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supports, that permit adjusting shelves at any desired height.

Metal Working Machinery.—Arthur P. Cody, Frostproof, Fla.—Wants data and prices on machinery for making tin cans.

Mining Equipment, etc.—J. J. Mallonee, Box 855, Winston-Salem, N. C.—Wants hoisting engines; mine track; jackhammers; pumps to lift 80 ft.; coarse and fine crushers; pulsating or other type riffles; concentrating tables; classifiers; conveyors, etc.

Motor.—See Air Compressor.

Motors.—General Supply Co., Inc., 500 Magazine street, New Orleans, La.—Wants prices on motors to use in paint mixing plant.

Ornamental Concrete Products Molds.—Wade and Snyder, 307 Gordon Drive, West, Albany, Ala.—Wants prices on molds for ornamental concrete porch, garden and lawn fixtures, also cemetery fixtures.

Overall Machinery, etc.—J. O. Ashworth, Box 302, Kosciusko, Miss.—Want data and prices on all necessary machinery and equipment for manufacture of overalls, work shirts, and house dresses.

Paint Mixing Machinery, etc.—General Supply Co., Inc., 500 Magazine street, New Orleans, La.—Wants prices on paint mills and grinders.

Pipe (Wood).—Henry Hagelstein Land Co., 406 E. Trevis St., San Antonio, Tex.—Wants quantity of 4 and 6 in. wood pipe, either new or second-hand.

Pumps.—See Mining Equipment, etc.

Rails.—See Mining Equipment, etc.

Roofing.—Jno. W. Tedder, Box 207, Live Oak, Fla.—Wants data on prepared roofing; prefer manufacturers located nearby.

Rugs.—See Furniture (Office) etc.

Sander, etc.—Pennwall Lumber Co. Inc., Gwinnett and Philpot St., Savannah, Ga.—Wants prices on sander and one 12-in. jointer.

Screen (Revolving).—G. R. Mueller Co. (Mfrs. Agent), Brown-Marx Bldg., Birmingham, Ala.—Wants 48-in. diam by 12 ft. long heavy-duty revolving screen, second-hand or used equipment; Georgia delivery.

Shears.—W. M. Smith & Co., Box 1709, Birmingham, Ala.—Wants one or two Alligator shears, portable, to be large enough to cut automobile frames; state condition, price, etc.

Shirt-Making Machinery, etc.—C. W. Woodall, Guntersville, Ala.—Wants data and prices on machinery and equipment for small shirt or overall factory; interested in second-hand machinery if in good condition.

Shovel (Steam).—G. R. Mueller Co. (Mfrs. Agent), Brown-Marx Bldg., Birmingham, Ala.—Wants ¾-yd. capacity, crawler type steam shovel, used equipment; state price and condition; Georgia delivery.

Shovel.—Jackson Machinery Co., Milsap Bldg., Jackson, Miss.—Wants prices on Diesel driven shovel, ¾-yard or larger, for use as dragline; Florida or Gulf Coast delivery.

Shovel (Steam).—L. J. Breed Equipment Co., 811 James Bldg., Chattanooga, Tenn.—Wants one ¾-yd. steam shovel mounted on crawlers, late type, for East Tennessee delivery; state age, shop number, condition and price.

Shovel (Steam).—Hackley Morrison Co. Inc. (Mchy. Dealer), 204 North Jefferson street, Richmond, Va.—Wants one 32 or 36-in. Marion steam shovel.

Shovel (Steam or Gasoline).—Lewter F. Hobbs, Inc., Box 483, Norfolk, Va.—Wants ¾-yd. steam or gasoline shovel on full crawlers, state condition.

Steam Dryer.—Alex. M. Robinson, (Mchy. Dealer), Georgetown, Ky.—Wants dealers' prices on used steam dryer, made by Chicago Manufacturing Co., approximately 5-ft. diam. by 18 ft. long, double shell and agitators, complete; state condition, location and full specifications.

Steel Shelving.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 24 for 32 sets steel shelving, each set to contain 8 compartments.

Tanks (Rendering).—Alex. M. Robinson (Mchy. Dealer), Georgetown, Ky.—Wants dealers' prices on several rendering tanks, 5x12 ft.; state condition, location and full specifications.

Ties.—See Bagging and Ties.

Tin.—Arthur P. Cody, Frostproof, Fla.—Wants data and prices on tin for manufacturing cans.

Water-Wheel.—Rex Beach, Sebring, Fla.—Wants undershot steel water-wheel with electric generator and lighting equipment for farm use.

Water Works Equipment, etc.—C. F. Drake, Sec., Chamber of Commerce, Big Lake, Tex.—Having preliminary surveys made for potable water supply, and wants:

- (1) **Pipe (Water).**—6-in., 8-in., 10-in., 12-in., water main pipe.
- (2) **Pumps.**—for "booster" station, and necessary equipment.

Wood Turning Machinery.—H. B. Knox, Winton, N. C.—Wants data on machine to turn out automobile wood-wheel spokes.

Woodworking Machinery.—Blue Ridge Furniture Co., Inc., Buchanan, Va.—Wants prices on planers, shapers, lathes, sanders and miscellaneous equipment for manufacture of novelty furniture.

Woodworking Machinery.—Wm. C. Bibb, Louisa, Va.—Wants data and prices on machinery to make split bottom chairs, also shuttle blocks.

Guyan Machine Shops, Inc., Logan, W. Va., wants following equipment:

- (1) **Angles.**—Up to 8x8x¾.
- (2) **Japanning Oven.**—for large armatures, natural gas or electric heat.
- (3) **Flooring.**—3-in. thick, tongue and groove, 20-ft. lengths, 110 pieces.
- (4) **"T"-Beam Hoists.**—1 or 2-ton capacity; A. C. or D. C.
- (5) **Lathe.**—about 36x14 in., preferably with single-pulley drive.
- (6) **Lifting Magnet.**—for 220 volts, direct current.
- (7) **Motors.**—3 squirrel-cage, 15-h.p., 3-phase, 60-cycle, 220 volts, with starters and ralls, preferably G. E. 1200 r.p.m.; also one 10-h.p., 1200 r.p.m., without starter.
- (8) **Motor Starter.**—for 20 h.p., 3-phase, 60-cycle, 2300-volt, 900 r. p. m. induction motor.
- (9) **Steel Plates.**—¼-in. up to 1-in. thick; steel bar about 10x4x½ in.; steel up to 5-in. round .030 to .045 carbon.
- (10) **Power Hack Saw.**—capacity 9-in. round machinery steel.

Bids Asked

Alleys.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Asphalt.—L. E. Rankin, Clerk, Board of Commrs., Gaston County, Gastonia, N. C.—Receives bids Mch. 29 for 100,000 to 150,000 gal. asphalt; state price per gal. applied on road, delivery over period of approximately 12 months.

Bobbinet.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 4 to furnish 100,000 yds. bobbinet; delivery Philadelphia, Pa. Sch. No. 485.

Books.—Board of Awards, F. A. Dolfeld, City Register, Baltimore, Md.—Receives bids Mch. 23 to furnish books for Dept. of Education; John H. Roche, Sec. Board School Commrs., Madison and Lafayette Ave.

Bridge.—Stuart, Fla., will build 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Gulfport, Miss. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State of Tennessee will build 37 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—State of Kentucky receives bids for 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

Cafeteria and Kitchen Equipment.—Board of Public Service, City Hall, St. Louis, Mo.—Receives bids Mch. 22 to furnish and install cafeteria and kitchen equipment for employees dining room at City Sanatorium.

Chinaaware.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 21 plain white, medium and hotel weight chinaaware, including: 6000 tea cups; 5700 bowls; 1200 jugs; 1200 pie plates; 6000 fruit sauce dishes; 1200 butter; 600 celery dishes, etc.

Cots (Rubber, Finger).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 19 to furnish 350 doz. rubber finger cots, medium size.

Cross Ties (Creosoted).—State Docks Comsn., Wm. L. Sibert, Chrmn., State Office Bldg., Mobile, Ala.—Receives bids Mch. 18 to furnish and deliver 44,000 creosoted cross ties and 106 sets creosoted switch ties.

Drainage.—El Jardin or Cameron County Water Improvement Dist. No. 6, Brownsville, Tex.—Receives bids March 22 for drainage system; 160 mi. open drains, 10 mi. pipe drains; reclaim about 30,000 acres.

Electrical Fixtures.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids March 21 to furnish 500 sockets, 200 screw plugs, 2000 parallel lamp cords, 100 two-light portable top clusters.

Electric Lights.—Commn. Council, Baton Rouge, La., Geo. F. Brogdon, Sec.—Receives

bids March 25 for furnishing materials labor, etc., for constructing and installing 36 lighting standards with underground cable in New City Park.

Fire Hose.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids March 28 to furnish 1500 ft. of 2½-in. fire hose.

Flags.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids March 21 to furnish 500 wool flags, 5-ft. hoist.

Gasoline, Kerosene and Fuel Oil.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Mch. 22 to furnish 131,000 gal. motor gasoline; 120,000 gal. kerosene; 262,500 gal. fuel oil; deliveries Dover, N. J.; Philadelphia, Pa.; Annapolis, Md.; Washington, D. C.; Quantico, Va.; Yorktown, Va.; Norfolk, Va., and Parris Island, S. C. Sch. 472.

Glass Tumblers.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 18 for 44,000 clear pressed glass tumblers.

Grass Seed.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 23 to furnish 500 lbs. grass seed; delivery Quantico, Va. Sch. No. 487.

Hospital Equipment, etc.—City Commission, Tampa, Fla., W. Lesley Brown, City Mgr.—Receives bids April 12; Stevens & Lee, Consult. Archts., 45 Newbury street, Boston, Mass. Includes:

Draperies.
General Furniture.
Kitchen and Serving Room Equipment.
Laundry Equipment.
Lighting Fixtures.
Lockers.
Metal Cabinets (Special).
Radio Equipment.
Sterilizers.
Surgical Equipment (Special).
Toilet Articles.
Vacuum Cleaning Equipment.
X-ray Equipment.

Hurdle Dikes.—Board of Public Service, City Hall, St. Louis, Mo.—Receives bids Mch. 22 to furnish materials, floating plant, equipment, tools and labor for constructing 600-ft. hurdle dikes into Missouri river from St. Charles County side.

Kitchen Supplies.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 22 for kitchen supplies.

Lubricant.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 24 to furnish 3300 lbs. transmission and differential lubricant; delivery Quantico, Va. Sch. No. 486.

Miscellaneous Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 24 to furnish 500 cast iron sash weights, 1800 sq. ft. wire cloth, 50 brass door knobs, 50 small and 50 large brass escutcheons. Sch. No. 483.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Mch. 25 for following: Blank forms and information (Circular 1790) on application Panama Canal; Asst. Purchasing Agts., 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal. also U. S. Engineers throughout country.

Life Boats; steel; iron; pipe; brass tubing and sheets; bronze; copper; monel metal; zinc; steel wire; manila rope; tackle blocks; screws; water buckets; lanterns; soap dispensers; casement fasteners; chain links; padlocks; horseshoe gloves, tags and tagboard, etc.

Oakite.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 23 to furnish 12,000 pkgs. oakite; delivery Philadelphia, Pa. Sch. No. 480.

Paper, Tablets, etc.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 19 to furnish 500 tablets; 250 reams writing paper; 7,000,000 napkins; 1200 doz. stenographers books; 700,000 paper cups; 600,000 Kraft paper bags; 200 pkgs. desk blotting paper, etc.

Paving.—Green Cove Springs, Fla. See Construction News—Roads, Streets, Paving.

Paving.—Houston Tex. See Construction News—Roads, Streets, Paving.

Pencils, etc.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 22 for 200 doz. No. 1 and 3708 doz. No. 2 black, round, with rubber tips; 300 doz. No. 2 without rubber tips, pencils; 444 doz. red pencils; 240 copying pencils; 16,000 boxes wire clips; 2400 jars library paste, etc.

Pipe (Galvanized Iron).—See Water Works.

Pipe (Reinforced Concrete).—State Highway Dept., State Office Bldg., Columbia, S.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

C.—Receives bids Mch. 24 to furnish reinforced concrete pipe to contractors for use road construction during months of April, May, June, July, August and September; 15-in. to 36-in. quantities for Central, Western, Southeastern and Northeastern Divisions; prices f. o. b. cars at manufacturer's plant. Address P. O. Drawer No. 660, Columbia, S. C.

Pipe (Concrete).—See Sewers.

Purification Plant.—Town of Spindale, N. C. The Carolina Engineering Co., Engrs., 919 Johnston Bldg., Charlotte—Receives bids March 31 for 1,000,000 gal. water purification plant.

Refrigerating Equipment.—U. S. Veterans' Bureau, Const. Division, Arlington, Bldg., Washington, D. C.—Receives bids April 12 to furnish labor, material and work for automatic electric refrigerating equipment at U. S. Veterans' Hospital No. 60, Oteen, N. C.

Reservoir.—Town of Front Royal, Va., B. J. Hillidge, Mayor; S. B. Williamson, Const. Engr., Box 551, Charlottesville—Receives bids March 30 for clear water reservoir, 500,000-gal. capacity; work includes:

- (1) Earth Excavation—800 cu. yds.
- (2) Rock Excavation—700 cu. yds.
- (3) Concrete Masonry—310 cu. yds.
- (4) Reinforcing Steel—19 tons.
- (5) Cast-Iron Pipe and Specials—complete.
- (6) Valves and Appurtenances—complete.
- (7) Steel Tanks—alternate proposals for furnishing and erecting complete with foundations 500,000-gal. steel tank.

Road.—State of Kentucky receives bids for 37 roads. See Construction News—Roads, Streets, Paving.

Road.—State of Tennessee will build 5 roads. See Construction News—Roads, Streets, Paving.

Road.—Dawson, Ga. See Construction News—Roads, Streets, Paving.

Sewers.—City of Huntington, W. Va., Homer L. Yelch, Commr. Streets, A. B. Maupin City Engr.—Receives bids Mch. 28 for constructing lateral and trunk sewers.

Sewers.—City of Tampa, Fla., W. Lesley Brown, Mgr.—Receives bids Mch. 22 for constructing storm sewers, Cleveland St., including reinforced concrete box sewers, circular concrete pipe, curb inlets.

Sewers.—City of Mobile, Ala., Harry T. Hartwell, Mayor, Wright 8th, City Engr.—Receives bids April 14 for storm sewers, manholes, special catch basins.

Sterilizers (Instrument).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 25 to furnish 6 instrument sterilizers, electric; The Reid Bros. Cat. No. 01672 or equal.

Street.—Clearwater, Fla. See Construction News—Roads, Streets, Paving.

Street.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Street.—Beaumont, Tex. See Construction News—Roads, Streets, Paving.

Sewers.—District Commrs., 427 District Bldg., Washington, D. C.—Receives bids March 29 for 13,838 ft. sewer from 7 to 10 in. in diam.

Street.—Mobile, Ala. See Construction News—Roads, Streets, Paving.

Tires and Tubes.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 25 to furnish tires and tubes; delivery Philadelphia, Pa. Sch. No. 479.

Trestles, Wickets, etc.—U. S. Engineers' Office, Box 72, Louisville, Ky.—Receives bids April 5 for furnishing and delivering trestles, wickets, etc., for Boulé weir for dam No. 41, Ohio River.

Twine.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Mch. 22 to furnish 850 lbs. cotton twine, No. 16; 100 lbs. cable laid, cotton twine, No. 36.

Typewriter Ribbons, etc.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids March 21 for 4788 typewriter ribbons for various machines; 120,000 sheets carbon paper for Addressograph, different sizes; 50 rolls carbon paper in rolls of 75 ft., etc.

Water Works.—City of Biloxi, Miss., Jno. J. Kennedy, Mayor—Receives bids March 28 for furnishing labor, tools and equipment to construct 2 pumping stations and lay water mains, valves, fittings, etc., including gate valves, 4, 6, 8, 10 and 12-in. mains; 20 200-ft. 1-in. galvanized iron pipes, etc.

Water Works.—Water Comsn., Natchez, Miss., Chas. Brasfield, Chrm.—Receives bids April 1 for water works, including:

- (1) Concrete—36 cu. yds.
- (2) Reinforcing—2000 lbs.
- (3) Excavation—118 cu. yds.
- (4) Water Tank—40,000 gal. reinforced concrete water tank.

Building Materials and Equipment

W. R. Pitner, Trustee, Tiptersville Consolidated School District, Tiptersville, Miss., wants prices on following for school building:

Metal ceilings.
Roofing.—composition and rigid asbestos shingles.

Windsor Construction Co., Amarillo, Texas, wants prices on following for \$225,000 High School:

Cast stone.
Flooring.—composition, hardwood, terrazzo and tile.

Marble.
Plaster board.

Roofing.—composition.

Steel sash and trim.

Tile.—hollow and interior.

Wire glass.

W. M. Jordan, Carthage, Miss., wants prices on following for \$12,000 Methodist church:

Church furniture.

Flooring.—hardwood.

Heating equipment.—steam.

Millwork.—windows, doors, frames.

Rolling partitions.

Roofing.—tile.

Jas. J. White, Archt., Houston Bldg., San Antonio, Tex., wants prices on following for \$13,000 dwelling:

Cast Stone.

Flooring.—hardwood, composition, tile.

Refrigerators.—electric.

Roofing.—tile.

Tile.—hollow, interior.

Rev. Giles B. Palmer, Pastor, St. Stephen's P. E. Church, Richmond, Va., wants prices on following for \$90,000 building:

Flooring.—tile.

Steel sash and trim.

Tile.—hollow, interior.

Zopfi Construction Co., Ind. Life Bldg., Nashville, Tenn., wants prices on following for \$105,000 Sunday school:

Flooring.—composition, tile.

Metal doors.

Steel sash and trim.

Wire glass.

Southland Pecan Co., Inc., Columbus, Ga., wants prices on following for 11 dwellings:

Plumbing fixtures.

Glassell-Wilson Co., Inc., P. O. Box 1383, Shreveport, La., wants prices on following for \$167,000 Girls' Baptist College:

Cast stone.

Flooring.—tile.

Limestone.

Metal doors.

Steel sash and trim.

Tile.—hollow and interior.

Ventilators.

Wire glass.

T. A. Searcy, Pres. of Tecumseh College, Tecumseh, Okla., wants prices on following for \$10,000 building:

Flooring.—composition, hardwood and linoleum.

Metal ceilings.

Plaster board.

Roofing.—composition.

Wire glass.

Brashears & Ruddell, Contrs., Delhi, La., wants prices on following for \$75,000 school at Tallulah:

Electrical work.

Flooring.—tile.

Metal ceilings and doors.

Metal and sheet metal work.

Painting.

Plastering.

Roofing.—slate.

Tile.—hollow and interior.

Vaults.

H. D. Atkinson, Contr., Thomasville, Ga., wants prices on following for \$265,000 commercial hotel:

Flooring.—composition, terrazzo and tile.

Incinerators.

Mail chutes.

Marble.

Metal doors.

Roofing.—composition and tile.

Sprinkler system.

Steel sash and trim.

Terra cotta trim.

Tile.—hollow and interior.

Vaults.

Ventilators.

Wire glass.

Coburn & Smith, Archts., 2006 Republic Bank Bldg., Dallas, Tex., wants prices on following:

Cast stone.

Flooring.—linoleum, rubber tile, tile.

Incinerators.

Marble.

Refrigerators.—electric.

Roofing.—composition, tile.

Tile.—interior.

James Ruskin Bailey, Archt., 1006 Main St., Houston, Texas, wants prices on following for \$900,000 hotel at Beaumont:

Cast stone.

Dumb waiters.

Flooring.—hardwood, terrazzo and tile.

Mail chutes.

Marble.

Metal doors.

Refrigerators.—electric.

Steel sash and trim.

Tile.—hollow and interior.

Vaults.

Ventilators.

Wire glass.

Harold Gimeno, Contr., Norman, Okla., wants prices on following for \$45,000 church and school, Fairfax, Okla.:

Flooring.—composition, linoleum, tile.

Marble.

Roofing.—tile.

Nussman & Cox, Contrs., Nat. Bank of Suffolk Bldg., Suffolk, Va., wants prices on following for \$93,000 Sunday school:

Flooring.—rubber tile.

Cast stone.

Flooring.—tile.

Metal ceilings.

Roofing.—composition.

Tile.—hollow and interior.

Wire glass.

J. I. T. Long & Co., care J. Brice Long, Fruitland, Md., wants prices on following for store:

Flooring.—composition, rubber tile and terrazzo.

Metal Ceilings and Doors.

Refrigerators.—electric.

Vaults.

Wire Glass.

Dr. J. E. Robinson, Box 405, Temple, Tex., wants prices on following for hospital:

Cast Stone.

Flooring.—tile.

Ventilators.

A. G. McGregor, Owner-Contr., 353 Lexington Ave., Lexington, Ky., wants prices on following for \$66,000 apartment building:

Dumb Waiters.

Flooring.—tile.

Mail Chutes.

Refrigerators.—electric.

F. V. Sprowls, 1944 Forest Park Blvd., Fort Worth, Tex., wants prices on following for \$18,000 residence:

Cast Stone.

Flooring.—hardwood, tile.

Mail Chutes.

Roofing.—tile.

Tile.—interior (bath, mantel).

Ventilators.

Tisdale, Stone & Pinson, 419 Ind. Life Bldg., Nashville, Tenn., wants prices on following for \$70,000 courthouse, Gainesboro, Tenn.:

Cast Stone.

Limestone.

Steel Sash and Trim.

Tile.—interior.

Frank T. Pope, Box 1465, Tulsa, Okla., wants prices on following for \$38,000 apartment building:

Flooring.—linoleum.

Montano's Log Cabin, J. J. Montano, cor. Houston and Solidad Sts., San Antonio, Texas, wants prices on following:

Dumb waiters.

Flooring.—linoleum.

Refrigerators.—electric

Store fixtures.—rustic design.

Signs.—electric street.

W. B. Irvin, Supt., Independent School District, Perryton, Texas, wants prices on following for \$70,000 High School:

Cast stone.

Roofing.—composition.

Vaults.

Ventilators.

S. Daley Craig, Archt., National Bank Bldg., Petersburg, Va., wants prices on following for \$100,000 apartment building:

Flooring.—rubber tile.

Incinerators.

Metal doors.

Mail chutes.

Refrigerators.—electric.

Charles C. Moore, Hamilton Natl. Bank Bldg., Chattanooga, Tenn., wants prices on following for \$85,000 apartment building:

Flooring.—hardwood, rubber tile, terrazzo and tile.

Incinerators.

Metal ceilings.

Plaster board.

Refrigerators.—electric.

Steel sash and trim.

Tile.—interior.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Inge & Burgher, Inc., Contrs., Mineral Wells, Texas, wants prices on following for \$1,500,000, 8-story resort hotel; plans and specifications from Wyatt C. Hedrick, Archt., First Natl. Bank Bldg., Fort Worth, or Contrs.:

Cast stone.
Cement.
Cooling system.
Elevators—four high-speed.
Flooring—rubber tile, terrazzo and tile.
Glass.
Heating—steam. (Boilers).
Iron—miscellaneous and ornamental.
Mail chutes.
Marble.
Millwork.
Metal ceilings and doors.
Painting.
Plastering.
Plumbing.
Roofing.
Sheet metal work.
Steel—structural.
Stone.
Tile—hollow 8x8 inch.
Ventilators.

Diboll & Owen, 412-15 Interstate Bank Bldg., New Orleans, La., wants prices on following for addition to Knights of Pythias building:

Cast stone.
Flooring—tile.
Marble.
Roofing—composition.
Tile—hollow, interior.
Vaults.

Harvey P. Smith, Archt., Nat. Bank of Commerce Bldg., San Antonio, Tex., wants prices on following for American Legion clubhouse, San Benito, Tex.:

Roofing—composition, tile.
Steel sash.

Rev. A. L. Goodrich, 730 S. Limestone St., Lexington, Ky., wants prices on following for \$50,000 to \$60,000 church:

Art glass windows (8).
Church pews and furniture.
Electrical fixtures.
Hardware—finished.
Pipe organ.

Morningside Hospital, 521 N. Boulder St., Tulsa, Okla., wants prices on following for \$250,000 hospital:

Cast stone.
Dumb waiters.
Flooring—composition, hardwood, linoleum, rubber tile, terrazzo, tile, wood block.
Incinerators.
Limestone.
Marble.
Refrigerators—electric.
Rolling partitions.
Sprinklers.
Vaults.
Vault lights.
Ventilators.

Edw. T. Clark, Chmn., Bldg. Comm., 303 S. Main St., Winchester, Va., wants prices on following for \$65,000 church:

Cast stone.
Church furniture and equipment.
Flooring—composition, hardwood.
Metal doors.
Rolling partitions.
Roofing—composition.
Steel sash and trim.
Vaults.

Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga., wants prices on following for bank and office building, Tallahassee, Fla.:

Cast stone.
Flooring—tile, terrazzo.
Mail chutes.
Marble.
Metal doors.
Tile—hollow, interior.
Vaults.
Ventilators.
Wire glass.

Trade Literature

New Monarch Tractor.

The 6-Ton Monarch Tractor, Model H, is illustrated, with specifications, in a bulletin issued by the Monarch Tractors Corporation, Springfield, Ill. This model is a new size designed and built, it is stated, in response to urgent needs of road officials, contractors, engineers, etc. It provides more power with suitable extra weight and it is built under all of the basic patents applying to track-type tractors. It is said to have many outstanding and exclusive features.

In writing to parties mentioned in this department it will be of advantage to all concerned if the *Manufacturers Record* is mentioned.

To Move Into New Offices.

The Pittsburgh-Des Moines Steel Company, manufacturers of tanks, towers, structural steel, municipal water-works and incinerators, will on April 1 move from their old quarters in the Curry Building to their new offices in the Professional Building. It is also interesting to note the company's new railroad catalogue that has just been issued, carrying the new address. This publication tells all about the company's tanks for railroad water service for locomotives, etc. It is finely and comprehensively illustrated and there is full descriptive matter.

Aluminum Paint Book.

The Aluminum Company of America, Wear Ever Building, New Kensington, Pa., have issued a new edition of their Aluminum Paint Book, which is now ready for distribution. It combines the material formerly shown in the company's aluminum paint book and their aluminum paint manual. It is illustrated and contains complete information about the physical properties of aluminum paint and its uses in modern industry.

Zelnicker's New Bulletin.

The Walter A. Zelnicker Supply Company, St. Louis, Mo., has issued a new bulletin, No. 336, describing many of their late offerings of interest to contractors and other users of engines, boilers, pumps, lathes, compressors, crushers, generators, tanks, hoists, machine tools, etc.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Door Opener Assets to Be Sold.

Announcement is made elsewhere in this issue that there will be sold at the Bankruptcy Court in Omaha, Neb., on April 16, all of the assets of the Petersen Electric Door Opener Co., including stock, unfinished material, equipment, etc. Particulars will be found in the advertisement.

Business Opportunity.

Elsewhere in this issue appears the announcement of an opportunity for a manufacturing executive with capital to engage in a business in the South by joining with others in the enterprise, which consists of the production and sale of portable drum units for hoisting, skidding, stump pulling and various other kinds of drum operations. Particulars will be found in the advertisement.

Armco Association District Offices.

The Armco Culvert and Flume Manufacturers Association of Middletown, Ohio, has opened a district office at East Point, Ga., with Tom M. Neibling, formerly research engineer of the Georgia State Highway Department, as district engineer in charge. This office will have charge of Association work in Alabama, Florida, Georgia, Louisiana, Mississippi, Tennessee, North Carolina and South Carolina. The Association has also opened a district office at Lincoln, Neb., with Mont C. Noble as district engineer in charge, covering Nebraska, Kansas, Iowa and Missouri.

American Locomotive Report.

In the annual report of the American Locomotive Company for the year 1926 President F. F. Fitzpatrick says: "Progressive railway management of today demands the use of the most modern and efficient power units, and progress is steadily being made in the further development of the steam locomotive with this in view. Continued interest is being manifested in the three-cylinder locomotive brought out by this company, and during the past year a number of additional locomotives of this type were built and are giving very satisfactory service." The net earnings of the company for the year, after deducting manufacturing, maintenance and administrative expenses, were \$10,352,193.47. Deducting from this over \$1,500,000 for depreciation of plants and equipment and over \$824,000 for Federal taxes accrued, the profit left for the year was \$8,015,939.07. After payment of dividends there was left a surplus for the year of \$115,730.17.

Climax Drilling Outfit.

The Climax Engineering Company, Clinton, Iowa, have issued a large illustrated folder about the Climax portable gas or gasoline drilling outfit for use in oil fields, this equipment it is stated, being so powerful that it will handle tools of any size and will drill to any depth. It can be loaded on a truck and transported easily and quickly to any position. No special foundation is required. It can be shifted about on its own steel skids so that it can soon be ready for operation. The pictures present at a glance full information about the outfit.

Prize for Slogan.

The executive committee of the Power Transmission Association, 644 Drexel Building, Philadelphia, Pa., W. S. Hays, executive secretary, has announced that an award of \$250 will be made at the National Industrial Advertisers' Convention to be held at Cleveland, Ohio, for the best slogan emblem design for the association that is received on or before June 5. It is stated that the wording should typify the objective of the association in the fewest possible words, together with a striking action design of some phase of power transmission. The convention in Cleveland is to be held at the Hotel Statler on June 13, 14 and 15. W. H. Fisher of Chambersburg, Pa., is president of the association.

Du Pont New York Office to Move.

The New York office of the explosives department of E. I. du Pont de Nemours & Co. of Wilmington, Del., will move from its present quarters in the Equitable Building, at 20 Broadway, to the large new Graybar Building, immediately to the east of the Grand Central Terminal, in that city, toward the end of April, when its present lease expires.

Business Change.

It has been announced that the firm of Hedrick & Frost, consulting engineers, has been dissolved by mutual consent, and that Ira G. Hedrick, Inc., consulting engineers, will be located at 320 Ardis Building, Shreveport, La.

Tamms Silica New Finish Coat.

The Tamms Silica Company of Chicago, with works at Tamms, Ill., and Nashville, Tenn., which began in January to manufacture Egyptian Portland Cement stucco finish coat, has established several agencies in the South, and it is expected that many more dealers will soon be added to the list in this section. The company says it believes this finish coat to be the finest product of this type and that it incorporates only the best known ingredients, which have all been passed upon and approved by the Atlas Portland Cement Company. It is designed only for the better class of building where results are of vital importance. It will be marketed very largely through the company's many building material dealers already handling Mortar Stucco, and it is hoped the South will take a large portion of the output.

Portland Cement Association Appointments.

The Portland Cement Association, 33 West Grand avenue., Chicago, Ill., has announced the resignation of Duff A. Abrams, for many years director of the research laboratory. He inaugurated, it is stated, the present-day research in concrete when he took charge of the Structural Materials Research Laboratory in 1916. His work in concrete research is internationally known, his papers, etc., having been translated into many languages. F. R. McMillan, manager, structural and technical bureau of the association, has now been appointed director of research to have charge of all investigations in cement and concrete for the Portland Cement Association and H. F. Gonnerman has been appointed director of the laboratory. Both have been with the association for several years and are men of broad experience.

Novo Engine Company Distributors.

The Novo Engine Company of Lansing, Mich., have added to their authorized list of distributors the following: Contractors Sales Company, Inc., Albany, N. Y.; Wheeler Murray Company, Rochester, N. Y.; McCracken-Ripley Company, Portland, Ore.; Hudson Supply and Equipment Company, Washington, D. C.

Cleveland Tractor Agencies.

The Cleveland Tractor Company of Cleveland, Ohio, has appointed three new representatives, viz., Weber Implement and Automobile Company, St. Louis and Kansas City, Mo., to cover Missouri and the southern half of Illinois; Going Roads Machinery Company, Inc., Birmingham, Ala., and the C. T. Patterson Company, Inc., 800 St. Peter St., New Orleans, La.

Problems of Cotton Industry Discussed by Textile Institute President—Meetings at Atlanta and Other Southern Points.

Atlanta, Ga., March 11—[Special.]—Problems confronting the textile industry were discussed by Walker D. Hines, president of the Cotton Textile Institute, and other prominent leaders of the industry at a meeting here today, at which more than 85 textile executives from Tennessee, North Carolina, South Carolina, Georgia, Alabama and Mississippi were in attendance. The conference was presided over by George S. Harris, president of the Cotton Manufacturers' Association of Georgia, and was opened at the Atlanta-Biltmore Hotel with an address by Mr. Hines, who pointed out that his idea was not to sell the Institute to the textile industry, but to confer with mill men as to its possibilities and to point out ways in which it may be of service to them.

"The great need of the textile industry," said Mr. Hines in part, "is for definite information—for definite facts which will prevent overproduction and seasonal gluts on the market and stabilize the industry. Along with this is a definite need for new uses of cotton products, such as is being conducted by other industries." He stated that the Institute will not only be of benefit to cotton-mill men but to everybody connected with the production, manufacture and sale of cotton.

Other speakers on the program were Lee Rodman of the Indiana Cotton Mills, Cannelton, Ind.; Benjamin Elsas of the Fulton Bag and Cotton Mills, Atlanta; J. B. Morgan, Jr., of Nashville, Tenn.; George Sloan, secretary of the Cotton-Textile Institute, and Mr. Harris. Speakers stressed the work of the Institute in gathering and distributing information, introducing cost accounting, finding new uses for cotton and its products and in national advertising. Following the talks a round-table discussion was held, which was interrupted by a luncheon, at which the Cotton Manufacturers' Association of Georgia was the host. In addition to Mr. Hines as honor guest at the lunch, other guests included Governor Clifford Walker, Clark Howell, Sr., editor of the Atlanta Constitution, and Robert F. Maddox, chairman of the board of directors of the Atlanta and Lowry National Bank.

After luncheon the round-table discussion was resumed, a brief recess being taken while the executive committee of "narrow-sheeting" manufacturers formulated plans for their group in the Institute. The executive committee made its report, which was adopted after a full discussion of each point. A full text of the resolutions designed to guide the group in its work will be given out later by Mr. Hines, to

serve as a guide for the organization of other Textile Institute groups.

Before reaching Atlanta Mr. Hines visited Greensboro, Charlotte, Spartanburg and Greenville, at which conferences were held.

To Vote on \$855,000 Improvement Bonds.

Springfield, Mo.—An election has been called for March 29 by the City Commissioners on a bond issue of \$855,000 for the construction of viaducts, subway, street improvements, sewers and other work. A viaduct proposed for Benton avenue will be 1056 feet long, with a 40-foot roadway and 6-foot sidewalks on each side. It is estimated to cost \$200,000, of which the Frisco Railroad will pay \$100,000, the Missouri Pacific Railroad \$40,000 and the city \$60,000, with \$15,000 additional for property damage. Another viaduct for Grant avenue will be 1788 feet long, with a similar roadway and sidewalks, estimated to cost \$120,000, of which the Frisco Railroad will pay half. The proposed subway will be 1000 feet long, on which there will be two car tracks, placed one on each side of a central row of supporting columns. A roadway on each side of the columns will be 21 feet wide, including track space. These structures will be of steel and concrete.

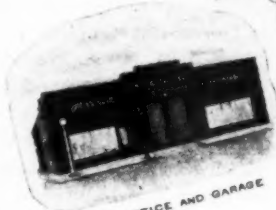
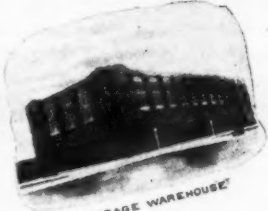
Power Lines for South Texas.

San Antonio, Texas, March 14—[Special.]—Extensions of power transmission lines of the Central Power and Light Company in South Texas are to be made to many towns during the present year, according to E. B. Neiswanger, general manager. He states that plans have been approved for the immediate construction of 127 miles of additional 66,000-volt transmission lines in pole construction. Eighty miles of the new construction will extend from Victoria to Sinton, through Gollad, Beeville and Skidmore, making an unbroken circuit all the way from Luling on the north and Alice and Kingsville and Corpus Christi on the south of Houston. Surveying for this project has been under way for several weeks and construction is scheduled to start within 30 days. The line is to be in operation by the first of September.

Plans for \$300,000 Hotel at Jackson.

Plans are being prepared by Emmett J. Hull of Jackson, Miss., for a \$300,000 apartment hotel to be erected in that city by Jackson capitalists. It is announced that the hotel, to be known as the Bellevue-State, will be seven stories, to contain a roof garden and 154 rooms to be divided into 33 apartments and 54 hotel rooms. Mr. Hull wires the MANUFACTURERS RECORD that information is not available at this time as to building details.

"Kat tires effected great saving in our operating costs"

North Kansas City Transfer Company
JENKINS & OWSLEY
DRAYAGE STORAGE GARAGE
North Kansas City, Mo.

December 31st, 1926.


Kelly-Springfield Tire Company,
Kansas City, Mo.

Gentlemen:-

Having been users of Kelly-Springfield Truck tires for the last four years, we are pleased to submit this letter for publication so that others may benefit by the experience we have had with your product.

Your Kat Tires, both Type "A" and "B" have stood up under the severest tests. Our business is mostly confined to long distance hauling, which is over unsurfaced roads. Your Kat Tires have carried us through in fine shape and needless to say due to their use we have effected a great saving in our operating costs.

Yours truly,
North Kansas City Transfer Co.
H. E. Jenkins



KELLY-SPRINGFIELD TIRES

Economical Long-Distance Transmission Made Possible by a New Invention.

A patent recently granted Frank G. Baum, 1901 Hobart Building, San Francisco, and assigned to the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., covers an invention which solves the problem of transmitting economically large amounts of electric power over distances of several hundred miles.

W. S. Rugg, vice-president in charge of engineering of the Westinghouse Company, said: "It has been known for a long time that long transmission lines differ from short lines in many respects. For example, it is entirely feasible to transmit large amounts of power over a simple set of wires for 100 miles or so, but were the attempt to be made to do the same thing over a line 500 miles long it is known that, due to the surges that would pass back and forth, the voltage conditions would become so erratic that the line would be inoperative.

"Effects of this sort can be controlled to a certain extent by means familiar to all electrical engineers, but Mr. Baum's invention provides a method that is far more efficacious in imparting stability to long transmission lines than anything previously known. By it the capacity of a given long line can be increased 75 per cent, according to our estimates, at a cost not exceeding 20 per cent of the original cost of the line.

"The value of this invention is that it makes possible the economical transmission of power from distant waterfalls and will ultimately permit sparsely scattered districts and farms, almost anywhere in the United States, to be supplied with electric power."

"My invention," said Mr. Baum, "makes a transcontinental transmission system entirely feasible theoretically. However, such a system will certainly never be built, because it would be unjustified economically. The longest lines transmitting power directly that will in all probability ever be built in the United States are those that may some day convey power from the Rocky Mountains to the Mississippi Valley. Such lines may be from 500 to 1000 miles long and are entirely practical from an engineering standpoint by the use of my method.

"My invention covers the connection of a plurality of automatically regulated synchronous condensers at substantially uniformly spaced points directly to the high-voltage transmission line. The practical effect of such a procedure is to transform the long line into a series of relatively short lines, in each of which the factors that cause instability can be readily controlled."

\$1,550,000 for Shreveport Improvements.

Shreveport, La.—Bonds in the amount of \$1,550,000 have been voted by the city of Shreveport for four important improvement projects, the two major items calling for \$500,000 for the construction of Market street viaduct and a similar amount for building a municipal auditorium as a soldiers' memorial. Other provisions include \$300,000 for opening and widening streets and \$250,000 for the water and sewer systems. Two of six items voted on were defeated, including \$350,000 to purchase a large park and \$100,000 to establish a municipal park.

\$1,200,000 Bonds Defeated—Another Election.

County Judge T. M. Wolfe of Gray county, Pampa, Texas, advises the MANUFACTURERS RECORD that a bond issue of \$1,200,000 for the construction of highways was defeated at a recent election, but that another election on the issue has been called for March 30.

Contracts on \$600,000 Office Building.

Beaumont, Texas.—A number of contracts have been awarded by the Goodhue Building Company in connection with the erection of its new \$600,000 office and medical building here. The Warren Company, Inc., of Houston has been awarded contracts to install vacuum steam heating plant and for plumbing, while the American Elevator and Machinery Company of Dallas was awarded contract for the installation of three gearless elevators. Contract for concrete piles was awarded to the Houston branch of the Raymond Concrete Pile Company of New York, and for reinforced concrete work and excavation to the Christy-Dolph Construction Company, Dallas. Minnesota pink granite will be supplied by the Engineering Sales Company of Minneapolis. Other contracts are yet to be awarded.

As previously detailed, the building will be 118 by 60 feet, 11 stories and basement, of reinforced concrete construction, with cement floors, terrazzo corridors and built-up roof. Tisdale, Stone & Pinson are the architects, and Nichol & Sneed managing and supervising engineers, both of Beaumont.

\$3,000,000 of Bonds for Everglades Project.

Tallahassee, Fla.—To carry on Everglades drainage work until July 1, 1928, the Board of Commissioners of the Everglades drainage district has authorized a bond issue of \$3,000,000 and has directed Governor John W. Martin to effect the sale of the bonds. It is understood that they will soon be offered.

Based upon a survey made several years ago by Isham Randolph, Fred C. Elliott, drainage engineer, estimates that it will require approximately \$16,000,000 to complete the drainage work, which will involve the construction of seven new canals. The action of the commissioners in authorizing the bond issue followed a presentation of Mr. Elliott's figures at a special meeting.

Southern Bankers Securities Corporation.

The Southern Bankers Securities Corporation, Baltimore, has recently incorporated in Delaware with an authorized capital of \$2,000,000 of 7 per cent cumulative preferred stock of \$100 par value and 40,000 shares of common stock of no par value. Of this capitalization 5000 shares of preferred stock and 10,000 shares of the common stock will be issued at once on the basis of \$107.50 for one share of each, an offering having been made by Stein Bros. & Boyce of Baltimore, who are largely interested in the new company. It is announced that it will be conducted along general lines of an investment trust, affording individuals an opportunity to participate, through expert supervision, in diversified investments and underwritings.

Ninth Southern Forestry Congress at Jacksonville.

A comprehensive program has been prepared for the ninth Southern Forestry Congress, to be held at the Carling Hotel, Jacksonville, Fla., on March 22, 23 and 24. Mayor John T. Alsop, Jr., of Jacksonville will deliver an address of welcome, to which H. L. Kayton of Savannah, president of the Congress, will respond. A number of other prominent speakers will address the Congress at its different sessions on various phases of the forestry situation, and reports will be presented by committees. A banquet will be held at the Carling Hotel on the evening of March 22 and a bus trip made to Starke, Fla., on the last day to permit an inspection of the naval stores research work conducted by the Southern Forest Experiment Station.



Better Brick Veneers

ONE contractor who has built hundreds of brick veneers says: "BRIXMENT mortar makes the strongest veneer job I ever saw and saves me \$2.00 per thousand brick in laying time to boot. Even when color is used, it never cracks or crumbles—and it doesn't fade the color." . . . Just one of many reports from contractors who have proved in practice the unusual strength and economy of BRIXMENT for veneer work. If you can use that extra profit, try BRIXMENT on your next job. Write today for the name of the nearest BRIXMENT dealer. Louisville Cement Company, Incorporated, General Offices: Louisville, Kentucky.

Cement Manufacturers for Nearly a Century

BRIXMENT *for Perfect Mortar*

FINANCIAL NEWS

Bond Issues Proposed

Ala., Montgomery—Road—State of Alabama votes April 12 on \$25,000,000; Mayor Sidney J. Reeves, Anniston, Campaign Chmn.*

Ala., Phenix City—School—Board of Education, L. P. Stough, Supt. of Schools, plans \$40,000 to \$50,000 bond election.

Ark., Springdale—Water Works—City, G. T. Sullivan, Mayor, receives bids April 1 for \$50,000, 6% bonds.*

Fla., Crestview—Okaloosa County plans \$600,000 bond election. Address County, Chamber of Commerce.

Fla., Flagler—Pier—City voted \$75,000 bonds. Address City Clk.

Fla., Fort Lauderdale—Harbor—City Comm. receives bids March 29 for \$2,000,000 6%, \$1000 denomination bonds; Glenn E. Turner, Auditor-Clk.*

Fla., Fort Myers—School—Lee County Board of Public Instruction, J. C. English, Sec., receives bids Mar. 21 for \$58,000, 6%, \$1000 denom. Special Tax School Dist. No. 3 bonds.

Fla., Gainesville—Road—Board of Bond Trustees, Special Road and Bridge Dist. Alachua County, R. C. Bowers, Clk., receives bids March 22 for \$300,000 5% \$1000 denom. bonds.

Fla., Haines City—Water Works, Sewer—City voted bonds. Address City Clk.

Fla., Jacksonville—Park—City Comm., receives bids soon for \$140,000 bonds; W. E. Shedd, City Engr.

Fla., Jacksonville—Street—City, Austin Miller, Atty., contemplates \$2,000,000 bond issue, to extend over period of 4 years; W. E. Shedd, City Engr.

Fla., Jasper—Paving, Improvement—City, Paul S. Graham, Clk., receives bids Mar. 22 for \$55,000, 6%, \$1000 denom. bonds.*

Fla., Key West—Road, Bridge—Monroe County Commrs. call election Apr. 4 on \$650,000 bonds.

Fla., Ocala—Road—Marion County Commrs., Ted Lancaster, Clk., receives bids Apr. 21 for \$250,000 bonds.

Fla., Oklawaha—School—Oklawaha Special Tax School Dist. No. 31, Marion County votes March 29 on \$25,000 5½% \$1000 denom. bonds; H. G. Shealy, Supt. Public Instruction, Ocala.

Fla., Orlando—Municipal Improvement—City, J. A. Stinson, Clk., receives bids Mar. 23 for \$731,000, 5% \$1000 denom. bonds; \$170,000, paving; \$230,000, paving, sewer, sidewalk; \$331,000 paving and sewer; Jas. A. Giles, Mayor.

Fla., McIntosh—Improvement—Town, Ida W. Monahan, Clk., receives bids March 24 for \$40,000, 6%, \$1000 denom. bonds.

Fla., Pensacola—School—City votes May 10 on \$225,000 bonds. Address City Clk.

Fla., Perry—Road—Taylor County Commrs., B. H. Lindsey, Chmn., receives bids Mar. 22 for \$250,000, 5% bonds.*

Fla., Perry—Special Improvement—Town, J. E. Powell, Clk., receives bids March 21 for \$60,000 6% \$1000 denom. bonds.

Fla., St. Petersburg—School—St. Petersburg Dist. votes April 5 on \$450,000 bonds; Frank Robinson, School Trustee. Lately noted election March 8.

Fla., St. Petersburg—Belt Line—City, S. S. Martin, Director of Finance, defeated \$362,000 bond issue; R. S. Pearce, Mayor-Commr.

Fla., Tallahassee—Drainage—Board of Commrs., Everglades Drainage Dist., Fred C. Elliott, Ch. Drainage Engr., authorized issuance and sale of \$3,000,000 bond.

Ga., Acworth—Sewer—City, F. G. Hull, postponed \$17,000 bond election. Lately noted election Mar. 8.

Ga., Albany—Municipal Improvement—City voted \$174,000 bonds: \$50,000, water works; \$10,000, light plant extension and rebuilding; \$35,000, gas plant extension; \$20,000, street improvement; \$10,000, storm sewers; \$2000, traffic signals; \$35,000, schools; \$12,000, extension street light system. Address City Clk.*

Ga., Cordelle—Hydro-Electric Development—Crisp County Commrs. call election April 19 on \$1,250,000 bonds.*

Ga., Tifton—School—Tift County, El Dorado Consolidated School Dist. voted \$20,000 bonds. Address Pres. Board of Trustees.*

Ga., Tybee—Electric Distribution System—City, Thomas Gambie, Mayor, calls election April 12 on \$22,000 \$1000 denom. bond election.*

Ky., Harrodsburg—Road—Mercer County voted \$250,000 bonds. Address County Commrs.*

La., Coushatta—School—City voted \$150,000 bonds; A. H. Horton, Supt. of Schools, Red River Parish.

La., New Orleans—T. S. Wamsley, Commr. of Public Finances, receives bids Mar. 29 for \$966,000 permanent paving bonds, \$33,900, temporary surfacing certificates.

La., New Orleans—Municipal Improvement—Board of Liquidation, Finance Commr. Wamsley, considering about \$4,000,000 bond issue, tentative amount.*

La., New Orleans—Docks—Eugene F. Lyons, State Auditor, approved \$3,262,407 bond issue.

La., Opelousas—School—St. Landry Parish School Board, W. B. Prescott, Supt., receives bids April 4 for \$30,000 6% \$500 denom. Melville School Dist. No. 5, and \$11,500 5% Eunice School Dist. bonds.

La., Shreveport—Municipal Improvement—City, L. E. Thomas, Mayor, voted \$1,550,000 bonds: \$500,000, viaduct; \$300,000, street improvement; \$500,000, municipal auditorium; \$250,000, water and sewer extension; defeated \$350,000, purchase large park; \$100,000, establish municipal park.*

Md., Cumberland—School—Allegany County Commrs. authorized \$500,000 bond issue.

Md., Cumberland—Flood Prevention—City, Mayor Koon, plans \$750,000 bond issue.*

Miss., Crawford—School—Lowndes County Board of Suprvs., Columbus, calls election April 5 on \$10,000 bonds.

Miss., Ellisville—Sewerage—Election Commrs., H. B. Graves, call election March 24 on \$10,000 bonds.

Miss., Jackson—State of Mississippi, H. L. Whitfield, Governor, receives bids March 26 for \$500,000 4½% \$1000 denom. State of Mississippi bonds; Ben S. Lowry, Treas.

Miss., Natchez—Adams County defeated \$20,000 bond issue, to furnish courthouse, repair Chancery Clerk's office, sidewalks, etc. Address Board of Suprvs. Lately noted election March 4.

Miss., Saucier—School—Saucier Consolidated School District plans voting on \$35,000 bonds. Address Pres. Board of Trustees.

Miss., Starkville—Mayor and Board of Aldermen voted \$25,000 additional bonds for school.

Mo., Jefferson City—Cole County, Henry J. Westhues, Circuit Judge, plans \$150,000 bond election: \$100,000, county jail; \$50,000, home for aged and infirm.

Mo., Huntsville—Road—Randolph County defeated \$750,000 bond issue.*

Mo., Neosho—Water Works—City votes Mar. 29 on \$25,000 bonds. Address City Clk.

Mo., Springfield—School—Board of Education plans \$500,000 to \$750,000 bond election.

Mo., Springfield—Viaducts, Subway, Sewers, Streets, etc.—City Commrs. call election March 29 on \$855,000 bonds. Address City Clk.*

N. C., Albemarle—Public Improvement, Funding—Stanly County Commrs., John U. Whitlock, Clk., receives bids March 22 for \$275,000, 5% \$1000 denom. bonds.

N. C., Camden—Refunding—Camden Highway Comm. of Camden County, R. L. Whaley, Chmn., receives bids April 8 for \$28,000, 6% \$1000 denom. bonds.

N. C., Charlotte—Prison Farm—Legislature authorized issuance of \$40,000 bonds.

N. C., Highlands—Water Works—Board of Aldermen plan \$15,000 bond issue.

N. C., Highlands—Electric Light and Power—Town Commrs., J. E. Root, Clk., receive bids Mar. 21 for \$35,000, 6%, \$1000 denom. bonds.

N. C., Huntersville—Water Works, Sewer, Fire Fighting Apparatus—Board of Aldermen authorized \$40,000 bond issue.

N. C., Kenansville—Road, Bridge—Duplin County Commrs., Lawrence Southerland, Clk., receive bids Mar. 23 for \$115,000, 4½%, \$1000 denom. bonds.

N. C., Newton—School, Road, etc.—Catawba County Commrs., Charlie Finger, Chmn., authorized \$600,000 bond issue.

N. C., Raleigh—Indebtedness—Wake County Commrs. plan \$280,000 bond issue.

N. C., Tarboro—School Funding—Edgecombe County Commrs., J. A. Weddell, County Auditor, receives bids March 21 for \$108,000, 4½% \$1000 denom. bonds.

N. C., Winston-Salem—City Hall—Finance Committee, Board of Aldermen, W. H. Holcombe, City Sec., receives bids Mar. 25 for \$550,000, 4½% bonds.

N. C., Winston-Salem—Tubercular Hospital—Forsyth County Commrs. plan calling \$200,000 bond election.

Okla., Shandler—Road—Lincoln County votes March 29 on bonds. Address County Commrs.

Okla., Holdenville—Electric Light—City votes Apr. 5 on \$18,000 bonds. Address City Clk.

Okla., Medford—School—School Board, C. E. Herschberger, Chmn., calls election Mar. 29 on \$20,000, School Dist. No. 54 bonds; receives bids Mar. 31 for \$20,000, 6% bonds.*

Okla., Okene—Sewer—Town defeated \$47,000 bond issue; G. W. Green, Pres. Board of Trustees; S. G. Fox, Clk.*

S. C., Columbia—School—Board of School Commrs., W. H. Hand, Sec., receives bids Mar. 25 for \$200,000, 5%, \$1000 denom. bonds.

S. C., Gaffney—Paving—Cherokee County Commr. receive bids for \$29,400 bonds.

S. C., Taylors—Town voted \$35,000 bonds; Robt. L. Meares, County Supt. and Chmn. Greenville County Board of Education, Greenville.*

S. C. York—Road—York County Permanent Road Comm. receives bids Mar. 22 for \$1,000,000 bonds.

Tenn., Chattanooga—Indebtedness—Hamilton County Commrs. plan calling election about last of April on \$2,000,000 bonds.

Tenn., Dayton—Water Works—City voted \$75,000 bonds. Address City Clk.*

Tenn., Greeneville—Indebtedness—Greene County Election Commrs. call election March 24 on \$126,000 bonds.

Tenn., Henry—Light and Water Plant—City voted \$11,000 bonds; plans receiving bonds in near future. Address City Clk.

Tenn., Lexington—School—Town plans voting on \$25,000 bond issue. Address Town Clk.

Tenn., Union City—Street—City plans \$50,000 bond election. Address City Clk.

Tex., Arlington—City defeated \$55,000 bond election: \$25,000, paving; \$30,000 sewer; John B. Hawley, Engr., 403 Cotton Exchange Bldg., Fort Worth. Lately noted election Feb. 26.

Tex., Canyon—Road—Randall County voted \$250,000 bonds. Address County Judge.

Tex., Columbus—Water Works—Mayor and City Commrs. call election Apr. 5 on \$55,000 bonds.

Tex., Groesbeck—Road—Limestone County Road Dist. No. 20 voted \$50,000 bonds. Address County Commrs.*

Tex., Houston—Road—Harris County, H. L. Washburn, County Auditor, receives bids March 21 for \$1,450,000 5% bonds.*

Tex., Houston—Municipal Improvement—City, O. F. Holcombe, Mayor, plans receiving bids June 15 for \$2,100,000, 4½% bonds; \$750,000 roadways; \$500,000, water works; Magnolia Park refunding bonds to replace \$150,000 in warrants; \$600,000, bridges; \$150,000, MacGregor Park; H. A. Giles, City Comptroller.

Tex., Lagrange—Drainage—Town votes, Apr. 5 on \$5000 bonds. Address Town Clk.

Tex., Lefors—Road—Gray County Commrs. call election March 30 on \$1,200,000 bonds.

Tex., Plemmons—Road—Hutchinson County Commrs. Court, W. R. Goodwin, Judge, plan bond election.

Tex., Mercedes—City voted \$125,000 bonds: \$95,000, sewer; \$30,000 city hall and fire station; W. E. Anderson, Engr., San Benito.*


Tex., Raymondville—School—Santa Margarita Independent School Dist. votes March 22 on \$25,000 bonds. Address Pres. Board of Trustees.

Tex., Texarkana—Street Cleaner—City voted \$7000 bonds. Address City Clk.

Tex., Weslaco—Community Building—City votes Mar. 19 on \$30,000 bonds. Address City Clk.

(Continued on page 134)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



CITY WATER COMPANY OF SEDALIA
L. R. ANDREWS, MANAGER
SEDALIA, MO.

October 9, 1926

U. S. Cast Iron Pipe & Foundry Co.,
Interstate Building,
Kansas City, Missouri.

(Attention of Mr. Simons)

Gentlemen:

I am writing you in regard to the installation of 40,000 feet of 20 inch flow line installed by this Company during the past Spring and the use of deLavaud centrifugally cast pipe for same.

The lighter weight of deLavaud pipe in this line resulted in a large saving in drayage and in convenient handling at cars and installing in the trench, each pipe self-centering in bell of next joint. These factors in our letting contract for laying at an advantage and a saving that we estimated on the entire job in \$20,000.

Our breakage was no greater than we have experienced with regular sand cast pipe and not one piece of defective pipe has developed in the finished line, now under pressure for the past four months. We tapped this line for brass corporation cocks in about forty places and found this could be done with the same facility as in the case of the ordinary cast iron pipe.

This, our first experience with deLavaud pipe, leads us to believe its adoption for such general use will mean a revolution in water mains installed hereafter.

Altogether we consider we have a splendid installation in this flow line and that it is off our minds henceforth and forever as far as maintenance is concerned.

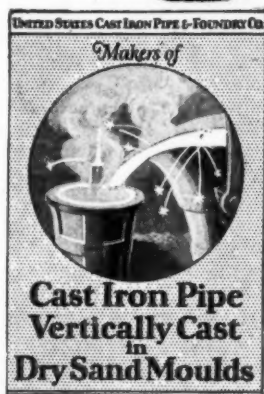
Yours very truly,
L. R. Andrews
CITY WATER COMPANY OF SEDALIA
Manager.

LPA:MB

Installation of 20" deLavaud
Centrifugal pipe at Sedalia.
Burns & McDonnell,
Consulting Engineers, Kan-
sas City, Mo.

"Altogether we consider we have a splendid installation in this flow line and that it is off our minds henceforth and forever as far as maintenance is concerned."

Write for special literature covering specifications, uses and manufacture of deLavaud Centrifugal pipe.



United States Cast Iron Pipe

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Birmingham: 1st Ave. & 20th St.
Buffalo: 957 East Ferry Street
Cleveland: 1150 East 26th Street
Minneapolis: 6th St. & Hennepin Ave.

New York: 71 Broadway
San Francisco: 3rd & Market Sts.
Pittsburgh: 6th & Smithfield Sts.
Dallas: Akard & Commerce Sts.
Kansas City: 13th & Locust Sts.

and Foundry Company

General Offices:

Burlington, New Jersey

FINANCIAL NEWS

(Continued from page 132)

Tex., Wheeler—Road—Wheeler County plans \$400,000 bond election. Address County Judge.

Va., Petersburg—Municipal Improvement—City, Dr. W. F. Drewry, Mgr., plans \$350,000 bond issue for street widening and paving, sewers, water mains, police and fire alarm system; also price of Exchange Bldg.

Va., Portsmouth—Road—Norfolk County Board of Suprs. contemplates \$250,000 bond issue.

W. Va., Cedar Grove—Water Works—Town votes March 24 on \$24,000 bonds; W. R. Ramsey, Recorder. Lately noted election Feb. 24.

W. Va., Parkersburg—Water Works—City, W. E. Stout, Mayor, plans bond election.

W. Va., Williamson—Road—Mingo County Court, K. B. Stepp, Clk., receives bids Apr. 9 for \$138,000, 5½% \$1000 denom. bonds.

Bond Issues Sold

Ark., Booneville—School—Logan County Commrs. sold \$44,000, 5½%. Special School Dist. bonds to M. W. Elkins & Co., Little Rock, at par.

Fla., Fort Lauderdale—School—Broward County Board of Public Instruction sold \$200,000, 6%, Special Tax School Dist. No. 3 bonds to Prudden & Co., Toledo, Ohio, at 95.50.*

Ark., Little Rock—Sewer—Board of Commissioners, Sewer Dist. No. 104, Roy L. Thompson, Chmn., sold \$480,000, 5½% bonds jointly to W. B. Worthen Co., Little Rock, and Fidelity National Bank and Trust Co., Kansas City, Mo., at \$103.85.

Fla., Manatee—Improvement Assessment—City, Chas. J. Majory, Clk., sold \$115,000 bonds to Wm. R. Compton Co., Chicago, Ill.: \$100,000, 6%, at \$98.830; \$15,000, 5½%, at 96.50.*

Fla., Mayo—Road, Bridge—LaFayette County Commrs., Cullen W. Edwards, Clk., sold \$250,000 bonds to Spitzer-Rorick Co., Toledo, Ohio, at 90.*

Fla., St. Petersburg—Public Improvement—City authorized sale of \$500,000 bonds to Davis, Miller & Cobb.

Fla., Winter Haven—Paving—City sold \$90,000 bonds to Ryan, Sutherland & Co., Toledo, Ohio, at 97.

La., Cameron—Road—Cameron Parish Police Jury, J. W. Doxey, Clk., sold \$160,000 bonds to Sutherland, Barry & Co., Inc., New Orleans, at par, accrued interest and premium of \$411.*

La., Marksville—Sewer City, J. J. Jean-sonne, Mayor, sold \$50,000, bonds to E. M. Ream & Co., Alexandria, at premium of \$550.*

La., Natchitoches—Road—Natchitoches Parish Police Jury sold \$25,000 6% Road Dist. A-4 bonds to L. E. French & Co., Alexandria, at par and accrued interest.*

Miss., Coffeeville—Road—Yalobusha County Board of Suprs., Road Dist. No. 3, W. B. Hunter, Clk., Water Valley, sold \$140,000 5¼% bonds to First National Bank, Memphis, Tenn., at premium of \$4805.*

Miss., Wiggins—School—Stone County Board of Suprs. sold \$35,000 bonds to Bank of McHenry, McHenry, Miss.

Miss., Yazoo—Road, Bridge—Yazoo County Board of Suprs., Helen Griffin, Chancery Clk., sold \$17,500, 5¼% Lake City Separate Road Dist. bonds to Citizens Bank & Trust Co., Yazoo City, at par, \$35 premium accrued interest and expenses.*

Mo., Springfield—Municipal Improvement—City Commrs. sold \$855,000, 4.25% bonds to William R. Compton Co., St. Louis, Mo., at par, premium of \$85.50 and interest; subject to approval of issue by voters at election Mar. 29.*

N. C., Reidsville—Water, Sewer, Municipal Building—City, Lola R. Young, Clk., sold \$100,000, 5% bonds to Weil, Roth & Irving Co., Cincinnati, Ohio, at \$101.500 and accrued interest.*

Okla., Tulsa—School—Board of Education, Frank Newkirk, Treas., sold \$750,000, 5% bonds to Producers National Bank, Tulsa; Brown-Crummer Investment Co., Wichita, Kansas; Prescott, Wright, Snider Co., Kansas City, at par, accrued interest and premium of \$47,670.*

S. C., Beaufort—School, Funding—Beaufort County Board of Directors, Chas. G. Luther, Chmn., sold \$75,000, 4¼% bonds to South Carolina National Bank, Columbia.

S. C., Inman—School—Board of Trustees, Inman School Dist. No. 26, H. E. Chapman, Treas., sold above \$40,000, 5½% bonds to Robinson-Humphrey Co., Atlanta, Ga., at 101 and accrued interest.*

Tenn., Chattanooga—Paving—City sold \$57,973 bonds to Caldwell & Co., Nashville, at premium of \$375 and par.

Tenn., Dayton—Water Works—City Comm. sold \$75,000 bonds to First National Bank of Memphis at \$75.910.*

Tenn., Dyersburg—City sold \$24,000 5% coupon bonds to Caldwell & Co., Nashville, at par.

Tenn., Newbern—Refunding—City sold \$40,000, 6% bonds to First National Bank of Memphis at premium of \$350.

Tex., Abilene—Improvement—City, M. L. Sellers, Sec., sold \$28,000, 4¼% bonds to City of Waco, E. E. McAdams, City Mgr.

Building and Loan Associations

Ga., Decatur—Decatur Building and Loan Assn., Masonic Temple Bldg., organized; C. A. Matthews, Pres.

Ga., Jesup—Wayne County Building & Loan Assn., capital \$15,000 organized; George W. O'Quinn, James R. Thomas.

New Financial Corporations

Ala., Birmingham—Corporation Investment Co., capital \$135,000, incorporated; John G. Farley, 2513 Arlington Ave.

Fla., Palatka—East Florida Savings and Trust Co., reopened, capital \$100,000, R. F. Adams, Acting Pres.; consolidated with Palatka Bank & Trust Co., T. E. Mobley, Pres.

La., Lake Charles—Lake Charles Investment Co., Inc., capital \$125,000, organized; T. L. Huber, Pres., 624 Ford St.; W. P. Weber, Chmn. of Board, 623 Pujos St.; S. Arthur Knapp, Sec.-Treas., 527 Pujos St.

Md., Baltimore—Baltimore Commercial Co., 28 South St., capital \$250,000, organized by officers and directors of Baltimore Commercial Bank, Gwynn Crowther, Pres.

Md., Baltimore—Southern Bankers Securities Corp., 6 South Calvert St., authorized capital \$2,000,000 7% cumulative preferred stock, par value of \$100 per share, and 40,000 shares common stock, no-par value, being organized by Stein Brothers & Boyce and associates; initial board of directors: Clarence K. Bowie of law firm, Bowie & Burke; W. Graham Boyce, and W. O. Pierson, both Vice-Presidents, Union Trust Co. of Maryland; James Bruce, Vice-Pres. International Acceptance Bank, New York; Julian S. Stein, of Stein Brothers & Boyce; J. Edward Johnston, of Stein Brothers & Boyce; Heyward E. Boyce, Pres. Drovers & Mechanics' National Bank; Mead H. Willis, Vice-Pres. Wachovia Banking & Trust Co., Winston-Salem, N. C.

Miss., Greenville—Citizens' Bank & Trust Co., capital and surplus \$125,000, organized; J. A. Crawford, F. N. Robertshaw, Charles H. West.

N. C., Asheville—J. B. Lipinsky Sons & Co., capital \$200,000, incorporated; S. W. Louis and Morris Lipinsky, 211 Montford Ave.

N. C., Biltmore—United Land and Investment Co., capital \$125,000, chartered; L. A. O'Neal, G. L. Reece, W. H. Stewart, Jr., 103 Cumberland Circle, all Asheville.

N. C., Chimney Rock—Chimney Rock Mortgage Co., capital \$10,000, chartered; John M. Flack.

N. C., Raleigh—Agrarian Investment Co., capital \$100,000, incorporated; V. M. Lewis, R. B. Etheridge, Miss Emma Young.

S. C., York—First National Bank of York, capital \$30,000, organized; H. E. Nell, John A. Lotta; plans to act as receiver for Peoples Bank & Trust Co., J. S. Mackorell, Pres.

Tex., Elgin—Elgin State Bank, capital \$50,000, opened; John Barton, Pres.; Otto Salcher, Cashier; assumes all liabilities and deposits of Merchants & Farmers Bank.

Tex., Houston—Safety Loan & Brokerage Co., capital \$250,000, incorporated; Carter W. Wesley, J. Alston Atkins.

Tex., Houston—Barbers' Finance Co., capital \$10,000, incorporated; Mrs. Helen and William K. Alex. Rossler, 3915 Austin St.

Tex., Marfa—Mendias Investment Co., capital \$15,500, incorporated; Urbano, Trinidad A. and Alberto O. Mendias.

Tex., Waco—Midland Investment Co., capi-

tal \$160,000, incorporated; W. B. and F. F. Elkin.

Tex., Wichita Falls—Southwestern Bond & Mortgage Co., capital \$50,000, incorporated; John W. Bradley, Chester Morgan.

Ward, Sterne & Co., Birmingham, Ala., purchased 90 per cent of stock Traders' National Bank for \$750,000; John H. Frye, Pres. of bank.

Citizens Finance Co., Inc., Two Republics Bldg., El Paso, Tex., plans increasing capital, \$20,000 to \$70,000.

First National Bank, E. L. Davidson, Pres., Market and Seventh St., Parkersburg, W. Va. and Second National Bank, H. W. Wolfe, Pres., plan consolidating as First-Second National Bank of Parkersburg, Va.

Edisto National Bank, B. H. Moses, Pres., Orangeburg, S. C., acquired Orangeburg National Bank, D. O. Herbert, Pres.; General Land and Investment Co., organized with \$100,000 capital, has purchased from Orangeburg National Bank all real estate, real estate mortgages and notes collateralized by real estate mortgages; D. O. Herbert, Pres.; J. W. Culler, Sec.

Book Reviews

The Practical Decoration of Furniture.

Volume I. By H. P. Shapland. New York: Payson & Clarke, Ltd. \$5.

This beautiful and artistic book of about 100 large pages, half of which are devoted to the presentation of pictures of richly adorned and handsome antique examples of furniture, treats especially of veneering, inlay or marqueterie work, gilding, and painting, and is the first of a series of three volumes which are to be sold separately and which will constitute a complete cyclopedia of every type of decorative design. Each section is prefaced by a short history of its subject, together with a description of technique, past and present, including modern mechanical methods. The plates show numerous beautiful pieces, including many not previously illustrated. These pictures are arranged under each section in a progressive sequence from the more simple and primitive examples to the most elaborate. The second book is to contain information about moulding, pierced work, turned work, twisting, and carving, and the third one will cover applied metal work, covering with leather and textiles, lacquering, and miscellaneous decoration. It is believed that the series of volumes will be of exceptional interest and value to collectors, students, designers, decorators and manufacturers of superior furniture and also to everyone concerned with the development of decorative arts.

Employment Statistics for the United States.

Edited by Ralph G. Hurlin and William A. Berridge. New York: Russell Sage Foundation. 1926. Pp. 215. Cloth. Gilt. \$2.50.

This volume is the work of a committee of the American Statistical Association and it sets up a plan for more complete collection of facts about trends of employment and earnings in industry by governmental bureaus in this country; it is a handbook. The information which it contains is significant in measuring the welfare of the wage-earning population and in indicating to some extent changes in the purchasing power of the people. The facts also constitute an index of business activity. The book is divided into two parts, one of recommendations and one of methods. There are nine chapters and an appendix. Twelve tables and twenty diagrams round out the contents. Excellent press work and typography as well as superior paper assist in making the volume agreeable to peruse.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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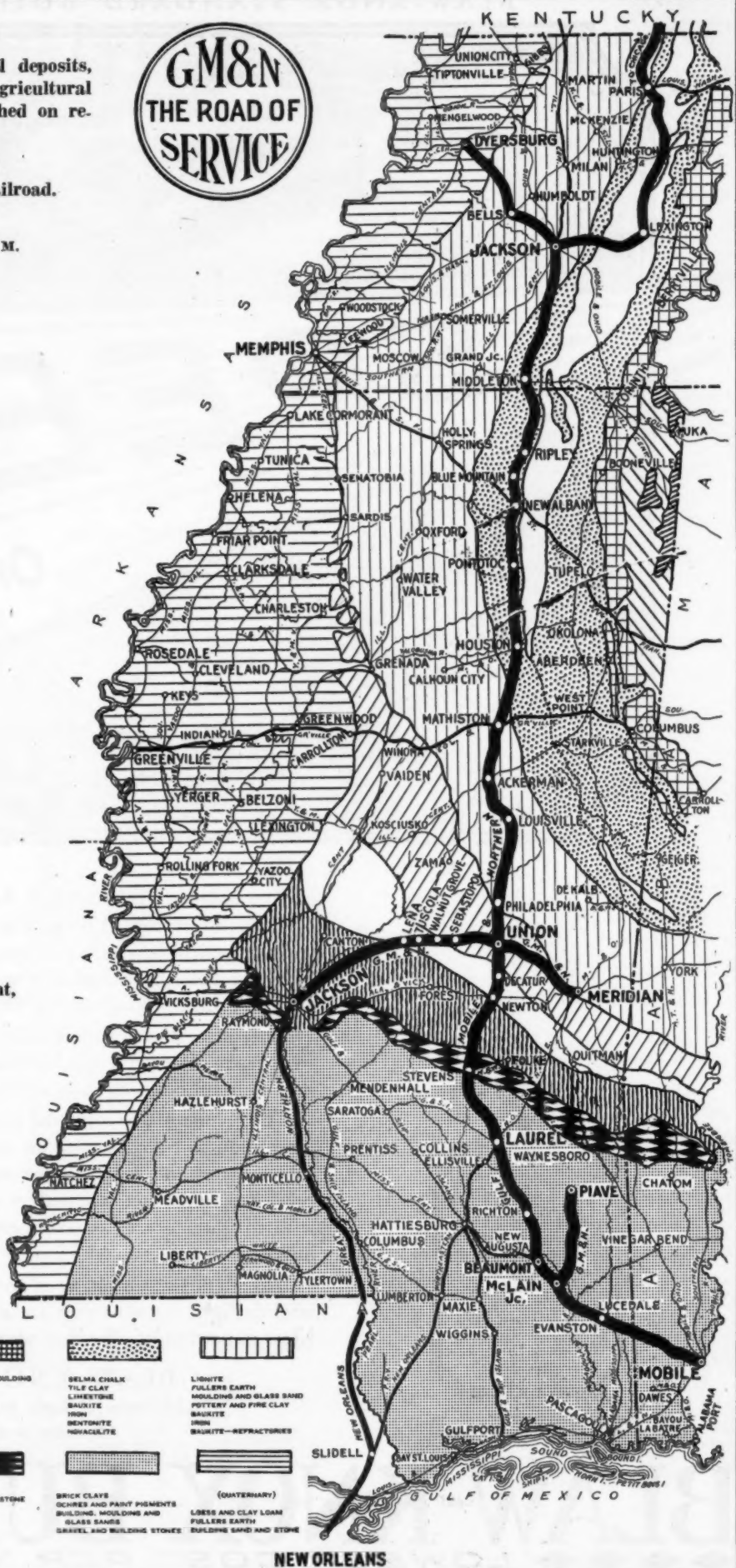
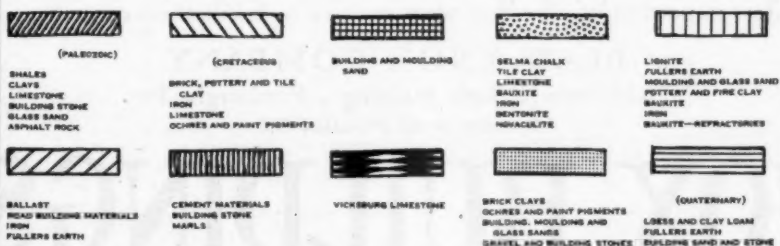
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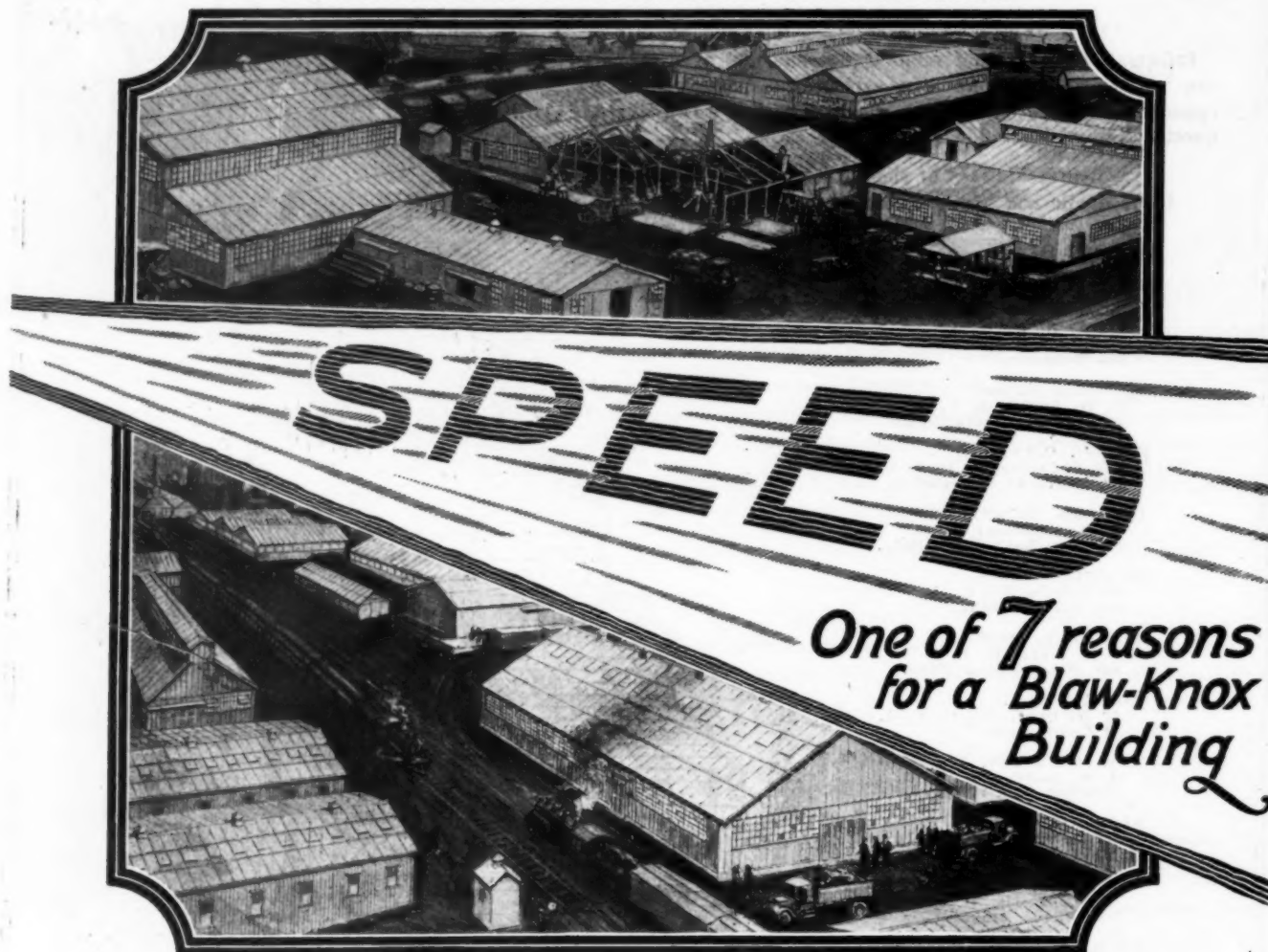
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SEPTEMBER, 1926



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The plant of the David R. Kennedy Company, Inc., New York City, manufacturers of floor tiles, etc., burned down, with contracts in work on which delivery was imperative. In this emergency Blaw-Knox Standard Steel Buildings were rushed to the site—and in a remarkably short time production was resumed and contracts were being filled.

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PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close March 31, 1927.

U. S. ENGINEER OFFICE, FLORENCE, ALA. — Sealed proposals will be received here until 11 A. M. March 31, 1927, and then opened, for the sale of concrete mixer plant equipment, including two 2-yard mixers, bucket elevators, motors, concrete buckets, etc., at Wilson Dam, Tennessee River. Further information on application.

Bids close April 11, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 7, 1927. SEALED BIDS in duplicate will be received until 3 P. M. April 11, 1927, and then publicly opened, for furnishing all labor and materials and performing all work for the construction of the United States Post Office at Shelbyville, Ky. Drawings and specifications may be obtained from the Custodian of the site at Shelbyville, Ky., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close April 6, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 9, 1927. SEALED BIDS will be opened in this office at 3 P. M. April 6, 1927, for remodeling and enlarging the lobbies, toilet rooms, etc., of the United States Post Office and Customhouse, St. Augustine, Fla. Drawings and specifications may be obtained from the Custodian of the building, United States Post Office and Customhouse, St. Augustine, Fla., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close March 23, 1927.

\$241,000 5% Road Bonds

Tallahassee, Fla., February 15, 1927. Sealed bids will be received by the State Road Department of the State of Florida, F. A. Hathaway, Chairman, in Tallahassee, Florida, until 10 o'clock A. M. March 23, 1927, for \$241,000 Madison County (Florida) Road Bonds, maturing January 1, 1952. All bonds dated January 1, 1922; denomination \$1000, bearing interest at the rate of 5%, from and after January 1, 1927, principal and semi-annual interest payable at any bank in the City of Madison, Florida, or at National City Bank of New York, New York, at the option of holder. Full faith and credit and resources of Madison County, Florida, pledged for payment of principal and interest as same become due. Bonds authorized by vote of the electors of said county, and validated by decree of the Circuit Court of the Third Judicial Circuit of Florida in and for Madison County, by decree rendered on the 18th day of February, 1922. Purchaser will be furnished with approving opinion of John C. Thomson of New York down to point of delivery by county to department.

All bids must be enclosed in a sealed envelope marked "Proposal for Bonds" and be accompanied by a bond in the penal sum of Five Thousand Dollars, running to the State Road Department of Florida and satisfactory to said department, with sureties, that the bidder will comply with the terms of his bids, or else be accompanied by a certified check for \$4820, drawn upon a bank or trust company doing business in Florida or upon a national bank anywhere. Any bidder whose bid shall be accepted shall, with his sureties, if bond be given, be liable to the department for all damages on account of the non-performance of the terms of his bid. Bonds will be delivered to purchaser at Tallahassee on payment of amount bid. The right to reject all or any bids is reserved.

STATE ROAD DEPARTMENT OF
FLORIDA.

F. A. HATHAWAY, Chairman.
J. L. CRESAP,
State Highway Engineer.

RATE: 35 cents per line per insertion.
PUBLICATION DAY: Thursday.
FORMS CLOSE: 4 P. M. Monday.
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THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest. The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements. The same rate applies—35 cents per line per insertion.

Bids close March 22, 1927.

\$250,000 5% Road Bonds

Perry, Fla.

NOTICE IS HEREBY GIVEN that at an adjourned session of a regular meeting of the Board of County Commissioners of Taylor County, Florida, held at the Court House in Perry, Taylor County, Florida, on Thursday, the 10th day of February, A. D. 1927, it was resolved by the said Board of County Commissioners of Taylor County, Florida, that it was for the best interest of Taylor County, Florida, and necessary, proper and expedient that for and on behalf of the said County of Taylor, State of Florida, the Board of County Commissioners of the said County and State should sell to the highest and best bidder for cash, upon the terms to be prescribed by the said Board of County Commissioners, the bonds of Taylor County, Florida, authorized by virtue of an election duly and regularly held in Taylor County, Florida, on the 24th day of November, A. D. 1925, to the value of two hundred fifty thousand dollars (\$250,000) for the construction of paved, macadamized and other hard-surfaced roads in Taylor County, Florida.

And the said bonds so resolved by the said Board of County Commissioners of Taylor County, Florida, to be sold for the said purposes are described as follows: The second section of bonds authorized by the election of November 24, A. D. 1925, aforesaid, which said bonds shall be for the sum of two hundred fifty thousand dollars (\$250,000) and shall be dated January 1, A. D. 1927, and shall be payable January 1, A. D. 1936, and shall bear interest at the rate of five per cent (5%) per annum, which said interest shall be payable semi-annually on the first day of January and the first day of July of each year during the life of said bonds, and shall be payable at the Court House at Perry, in the County of Taylor and State of Florida.

And all persons will hereby take notice that the said Board of County Commissioners of Taylor County, Florida, will receive bids for the purchase of the said bonds at the office of the Clerk of the Circuit Court in Perry, Taylor County, Florida, on or before the expiration of thirty (30) days from the first publication of this notice. The said bids shall be opened at 2 o'clock in the afternoon on

MARCH 22, A. D. 1927.

The said Board of County Commissioners of Taylor County, Florida, hereby reserves the right to reject any and all bids which may be submitted for the purchase of said bonds.

This notice shall be published in the Perry Herald, a newspaper of general circulation, published in Taylor County, Florida, on the 15th day of February, A. D. 1927, and twice each week thereafter until the said notice shall have been published for thirty (30) days after the first publication thereof.

(Seal) B. H. LINDSEY,

Chairman, Board of County Commissioners
of Taylor County, Fla.

Attest:

JAMES R. JACKSON,
Clerk of Board of County
Commissioners of Taylor County, Fla.

Bids close March 31, 1927.

U. S. ENGINEER OFFICE, FLORENCE, ALA. — Sealed proposals will be received here until 11 A. M. March 31, 1927, and then opened, for the sale of standard gauge dump, box, flat and gondola cars at Wilson Dam, Tennessee River. Further information on application.

Bids close March 24, 1927.

\$40,000 6% Improvement Bonds

McIntosh, Fla.

NOTICE IS HEREBY GIVEN that the Town Council of the Town of McIntosh, Florida, will at a meeting to be held on the 24th DAY OF MARCH, 1927, at 8 o'clock P. M., receive bids for \$40,000 Improvement Bonds, Issue of 1927, of said Town, dated January 1, 1927, and payable January 1, 1957, bearing interest at the rate of 6 per centum per annum, payable semi-annually January 1 and July 1.

Said bonds will be coupon bonds and will be general obligations of the Town of McIntosh, Florida. Said bonds will be in the denomination of \$1000 each and will be payable in gold coin of the United States at the office of the Treasurer of the Town of McIntosh, McIntosh, Florida, or at the National City Bank in the City of New York, N. Y.

All bids must be enclosed in a plain sealed envelope, marked "Proposal for \$40,000 Improvement Bonds," addressed to Ida W. Monahan, Town Clerk, McIntosh, Florida, and must be accompanied by a certified check for 2 per cent of the par value of the bonds, payable to the order of the said Town Clerk. All bids must be unconditional. The approving opinion of Messrs. Thomson, Wood & Hoffman, Attorneys at Law, of New York City, will be furnished the successful bidder free of charge. The right is reserved to reject any and all bids.

Dated at Town of McIntosh, Florida,
March 5, 1927.

(Town Seal) IDA W. MONAHAN,
Town Clerk.

Bids close April 4, 1927.

Paving and Storm Sewers

Clearwater, Fla.

Sealed bids will be received by the City of Clearwater, Florida, until 7:30 P. M. April 4, 1927, for the furnishing of necessary materials, equipment, tools and labor for the construction of pavement, sidewalks, curbs, etc., on the Clearwater Harbor Causeway and adjoining properties, as outlined in the plans and specifications on file in the office of the City Engineer.

Approximate quantities included in the completed work are as follows:

56,500 sq. yd. Reinforced Concrete Pavement.
2,000 lin. ft. Concrete Curb and Gutter.
4,800 sq. yd. Concrete Sidewalk.
1,300 lin. ft. Storm Sewers, 12-in to 24-in.

Blank forms of proposal and specifications will be furnished prospective bidders upon payment of \$10 in cash, which will be returned to bona fide bidders upon return of said plans and specifications. Plans for the same are on file in the office of the City Engineer of said city, where they may be examined.

Certified check of \$10,000 is required with each bid and bond for \$75,000 will be required of the successful bidder, such bond to be a bond with reputable and responsible surety company as surety and written by company or companies authorized to do business in the State of Florida.

The city reserves the right to reject any and all bids.

The city reserves the right to increase or decrease the amount of work included in these specifications without affecting in any way the contract prices and without affecting the specifications or contract in any other respect.

The city reserves the right to group the work in units, as set forth in Instructions to Bidders, and to let separate contracts for any one or more units.

CHAS. F. MASON, City Manager.

Toll Bridge

Tampa, Fla.

The Tampa Subway Corporation is beginning the construction of a toll bridge and vehicular tunnel at Tampa, Florida.

The program covers approximately one and one-half million cubic yards of dredging and hydraulic fill; four miles of reinforced concrete highway bridge; one double leaf bascule bridge of one hundred and ten foot span and twenty-five hundred lineal feet of reinforced concrete vehicular tunnel under the ship channel in Hillsboro Bay.

Approximately one hundred eighty-nine thousand cubic yards of concrete, sixty-eight hundred tons of reinforcing and one hundred thousand lineal feet of pine piling will be required to complete the project.

Proposals are invited from contractors equipped to undertake work of this kind, and who are in position to assist in the financing.

For full particulars communicate with,
N. W. GREEN, Secretary
Tampa Subway Corp.,
723 Stovall Professional Bldg.,
Tampa, Fla.

Bids close March 28, 1927.

Sewers and Appurtenances

Towson, Md., March 2, 1927.

Sealed Proposals addressed to the County Commissioners of Baltimore County and endorsed bids for the laying of Sewers and Appurtenances thereto, in Kensington, will be received at their office in the Court House, Towson, Maryland, until 11.00 A. M., Eastern Standard Time, on March 28, 1927, when they will be publicly opened and read.

PROPOSAL NO. 10-S

6380 Lin. Ft. 8-in. Vlt. Sewer.
477 Lin. Ft. 12-in. Vlt. Sewer.
3150 Lin. Ft. 6-in. House Connections.
36 Manholes.

1600 Cu. Yds. Rock Excavation.

1 Sewage Settling Tank.

Each bid must be accompanied by a certified check for Five Hundred (\$500.00) Dollars, payable to the County Commissioners, as a guarantee that the successful bidder will sign the contract.

A bond for an amount equal to the amount of the bid of a Surety Company satisfactory to the Commissioners will be required of the successful bidder.

A copy of the Specifications, Plans and Drawings will be furnished prospective bidders on receipt of a certified check for Five (\$5.00) Dollars, refund of which will only be made upon receipt of a bona fide bid and return of the specifications and drawings to the office of the Chief Engineer of the Baltimore County Metropolitan District within ten (10) days after opening of the bids and award of the contract. No specifications or drawings will be issued after March 25, 1927. Specifications and drawings can be seen at the office of the Chief Engineer of the Baltimore County Metropolitan District, Towson, Md. after March 8, 1927.

Consideration will be given bidders of experience (must be stated in or attached to the bid), financial standing and reputation for having done successful work of the kind specified without controversy or litigation, and the Commissioners reserve the right to reject any or all proposals or bids, or to accept any proposal or bid, or to waive technicalities as they may deem best for the interest of the County.

By Order of the Board.

JOHN R. HAUT,
Chief Clerk

A. E. WALDEN,
Chief Engineer.

Bids close March 30, 1927.

Clear-Water Reservoir

Front Royal, Va.

Sealed proposals for the construction of a 500,000 gallon Clear-Water Reservoir will be received by the Town of Front Royal until 12 Noon March 30, 1927, at the office of the Mayor, at which time they will be publicly opened and read. Proposals shall be made out on the form furnished and shall be accompanied by a certified check for \$2000.

The work involves the following approximate quantities:

Earth Excavation 800 cu. yds.
Rock Excavation 700 cu. yds.
Concrete Masonry 310 cu. yds.
Reinforcing Steel 19 Tons.

Cast iron pipe and specials...Complete.
Valves and appurtenances...Complete.
Alternate Proposals for furnishing and erecting complete with foundation a 500,000 gallon steel tank will be received.

Plans and bid sheet may be secured from S. B. Williamson, Consulting Engineer, Box 551, Charlottesville, Va. upon the deposit of \$5.00. Complete specifications are on file at the above office; at the office of the Recorder in the Warren National Bank and the office of the Mayor, Front Royal, Va. The Engineer will be at the site of the work on March 22 and 29 for the convenience of bidders.

The Council of Front Royal reserves the right to reject any or all bids.

B. J. HILLIDGE, Mayor.

E. H. STOKES,
Chairman of Water Committee.

Bids close March 31, 1927.

Water-Purification Plant

Spindale, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners at Spindale, North Carolina, until 11 o'clock A. M. on the 31st day of March, 1927, at the office of the Mayor, at which time all proposals will be publicly opened and read, for furnishing materials, labor, tools and equipment to complete such contracts as may be entered into for the construction of a Water Purification Plant consisting of the following complete in place:

1—One Million Gallon Water-Purification Plant, together with necessary appurtenances.

Plans and specifications will be on file at the office of the City Clerk, Spindale, North Carolina, and at the office of the Engineers, and will be mailed upon application, accompanied by a check for \$25.00, which will be returned to bona fide bidders.

Each bid must be accompanied by a certified check to the amount of 5 per cent of the amount bid, and not less than \$250.00, payable to the Treasurer of Spindale, North Carolina, without recourse.

All bids must be placed in a sealed envelope and endorsed on the outside "PROPOSAL FOR WATER SUPPLY IMPROVEMENTS." The Town prefers to let the entire work in one contract, but reserves the right to waive technicalities and let the work in parts to separate bidders, or let such parts of the work as is considered to be the best interest of the Town, and reserves the right to reject any or all bids.

Contractors are cautioned to examine the plans and specifications thoroughly, form of contract, bond and conditions under which the work will be done before bidding.

Contractors must comply with the act to regulate the practice of General Contracting as ratified by the General Assembly March 10, 1925.

S. E. ELMORE, Mayor.

MRS. S. K. YELTON, Clerk.

ENGINEERS:
The Carolina Engineering Company,
917-919 Johnston Building,
Charlotte, North Carolina.
G. H. BISHOP,
Consulting Engineer.

Bids close March 28, 1927.

School Building

Live Oak, Fla.

Notice is hereby given that the Board of Public Instruction for the County of Suwannee, State of Florida, will receive sealed bids for the construction, building and erection of a school building in Live Oak, Florida, according to the plans and specifications prepared by Messrs. Lockwood, Poundstone and Billie, Architects, of Tampa, Florida. Said plans and specifications being now on file in the office of the Superintendent of Public Instruction of Suwannee County, Florida, in Live Oak. Bids will be opened and considered by said Board at its meeting to be held March 28, 1927, at the office of the Superintendent of Public Instruction, at the Court House in Live Oak, Florida. Said bids to be opened at 2 o'clock P. M. A strict compliance with said plans and specifications will be demanded, and no bid will be considered which attempts to alter said plans in any particular. Each bid must be accompanied by a cashier's check in an amount equal to 5 per cent. of the face of the bid, payable to T. W.

Sweat, Secretary, the proceeds of which check to be held by the Board until the successful bidder has entered into a good and sufficient bond as required by law conditioned for the faithful performance of the contract, which shall supersede said bid. All checks of unsuccessful bidders shall be immediately returned to the owners. The Board reserves the right to reject any and all bids.

BUREAU A. L. BIXLER,

Chairman of the Board of Public Instruction for the County of Suwannee, State of Florida.

Attest:

T. W. SWEAT,

Secretary of the Board of Public Instruction for the County of Suwannee, State of Florida.

Bids close April 13, 1927.

Electric-Light Fixtures and Installation

DADE COUNTY COURT HOUSE AND MIAMI CITY HALL

Miami, Fla.

Sealed proposals will be received on or before 12 o'clock noon, Eastern time, April 13, 1927, at the office of the County Commissioners of Dade County, Miami, Florida, for the following work and under the following rules and conditions:

The building in which this work is to be installed is being erected on the present property of the County, located in the City of Miami, Fla., bounded by West Flagler street on the South; Northwest Miami Court on the East; Northwest First street on the North and Northwest, 1st avenue on the West.

The building to be a modern steel frame tower-like structure, with three-story base and basement approximately 168'x166', surrounded by a terrace on all four sides to the lot line; a sub-base approximately 136'x138' four stories high; this latter surmounted by a tower approximately 78'x78', eighteen stories high, which in turn will be surmounted by a stepped pyramid approximately 50' high.

Bids will be received upon the following work as more specifically shown and specified by the plans and specifications herein mentioned.

1—Electric Light Fixtures and installation of same.

Plans and specifications for the above, together with bid blanks, can be secured from A. Ten Eyck Brown, Architect, and August Geiger, Associate Architect, Nos. 1007-8 Huntington Building, Miami, Fla., or 717-20 Forsyth Building, Atlanta, Ga., upon the deposit of a certified check for \$10. This check will be retained until the return of the plans and specifications in complete shape to the architect's office.

All bids to be considered must be received on or before 12 o'clock noon, Eastern time, April 13, 1927, and must be submitted on blanks to be furnished by the architects covering formal items as called for by the specifications.

Each bid to be considered must also be accompanied by a check for 2% of the total amount, payable to Mr. Hugh Peters, Chairman, Board of County Commissioners, Dade County, Florida, as agreed liquidated damages in case the low bidder fails to sign a contract or make a proper bond.

The form of contract to be used will be that of the American Institute of Architects, Third Edition, 1918, as approved by the National Association of Builders, and as modified by the attorneys for Dade County Commissioners. The form of bond will be that included in the above standard contract document of the American Institute of Architects, or a form prepared by the attorneys for Dade County Commissioners.

All bids should be addressed to Mr. Hugh Peters, Chairman, Board of County Commissioners, Dade County, Miami, Florida, with the contents of each bid plainly marked on its cover.

The Board of County Commissioners of Dade County, Florida, will have the right to reject any or all bids.

(Signed) HUGH PETERS,

Chairman Board of County Commissioners,
Dade County, Florida.

Attest:

W. E. NORTON,
Deputy Clerk.

Bids close March 28, 1927.

Water-Works System

Bunnell, Fla.
Sealed proposals will be received by the Mayor and Commissioners of the Town of Bunnell, Florida, until 2 o'clock P. M. on the 28th day of March, 1927, for the furnishing of material and construction of a water-works system in and for the Town of Bunnell, Florida, in accordance with plans and specifications on file at the office of the Town Clerk of Bunnell, Fla., or at the office of the Engineer at New Smyrna, Fla., consisting of the following items, to wit:
4,000 lineal feet of 10-inch Cast-iron Pipe, Class "B."
3,160 lineal feet of 8-inch Cast-iron Pipe, Class "B."
22,700 lineal feet of 6-inch Cast-iron Pipe, Class "B."
4,180 lineal feet of 4-inch Cast-iron Pipe, Class "B."
12,250 lineal feet of 2-inch Galvanized Steel Pipe.
16 tons of Special Castings.
19 2-inch x 2-inch Steel Crosses.
210 1/4-inch x 2-inch Steel Crosses.
6 10-inch Gate Valves and Boxes.

- 9 8-inch Gate Valves and Boxes.
- 54 6-inch Gate Valves and Boxes.
- 12 4-inch Gate Valves and Boxes.
- 32 2-inch Gate Valves and Boxes.
- 46 6-inch 3-way Steamer Fire Hydrants.
- 7 4-inch 3-way Steamer Fire Hydrants.
- 2,000 lineal feet of 6-inch pipe to be salvaged and relaid.
- 15 cubic yards Class "A" Concrete.
- 25 cubic yards Class "B" Concrete.
- 1 75,000-gallon tank on 105-ft. tower.
- 1 Pump House.
- 2 700-gallon per minute direct-connected centrifugal pumping units.
- 1 400-gallon per minute direct-connected centrifugal pumping unit.
- 1 250-gallon per minute motor-driven suction force pump.
- 1 50-ft. concrete reservoir.

Bids will be received on the whole or any section of the work.

Plans and specifications may be examined at the office of the Town Clerk in the Town of Bunnell, Fla., or at the office of the Engineer at New Smyrna, Fla. Copies of the specifications may be obtained from the above places upon receipt of Five Dollars,

which will be returned on a bona fide bid. Copies of the plans may be obtained on the payment of \$15.

Each bidder must accompany bid with a certified check for an amount not less than five per cent. of the amount bid, drawn to the order of John P. Gerz, Town Clerk, Town of Bunnell, Fla.

The right is reserved to reject any or all bids in whole or in part.

ZEB E. BOOE,

Mayor of Town of Bunnell.

JOHN P. GERZ, Clerk.

N. A. HOTARD, Engineer.

Bids close March 29, 1927.

Asphalt

Gastonia, N. C.

WANTED—Bids on from one hundred to one hundred fifty thousand gallons of asphalt. Bidders to apply asphalt. State price per gallon applied on road; delivery over a period of approximately 12 months.

Bids must be received on or before noon Tuesday, March 29, 1927. The right is reserved to reject any or all bids.

L. E. RANKIN, Clerk,

Board of Commissioners for Gaston County, Gastonia, N. C.

**CLASSIFIED OPPORTUNITIES****MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

GREAT MONEYMAKER in Alabama. 15,000 acres timbered farm and mineral lands. Only ten dollars per acre. Easily financed. H. H. Hansen, Macon, Mississippi.

UNDER DECREE OF COURT to settle estate, sell at front door of Court House, at Berkeley Springs, W. Va., Sat. March 26, 1927, at 2 P. M., valuable GLASS SAND LAND, with water rights, rights of way, etc. Analyzes 99.7%. Adjacent famous Berkeley Springs. Glass Sand Quarries now being operated. Address Allen B. Noll or Paul H. Martin, Special Commissioners, Martinsburg, W. Va.

GEORGIA LAND FOR SALE OR LEASE. 1000 acres high-class sand bed for sale in fee simple, or to lease on royalty basis, for the manufacture of glass and glass products. This sand can be used for many other purposes. Bed commences right at right of way of main line railroad and extends back from the road about three miles. This bed is practically inexhaustible. J. M. Cox, Waycross, Georgia.

KAOLIN AND LIMESTONE LANDS FOR SALE.

About 3500 acres at Adams Park, Ga., on Southern Rwy., which passes through property 20 miles south of Macon. There are three deposits of raw material of commercial interest—Kaolin, Limestone and Fuller's Earth. Kaolin has an overburden of from 5 to 15 ft. of sand and has thickness of 15 to 45 ft. almost pure Kaolin, about 50 ft. from R. R. Across Savage Creek land is underlain by Ocala Limestone and Fuller's Earth. Limestone is well above water level and has thickness of 40 to 50 ft. For further particulars address

MRS. MINTER WIMBERLEY,
Adams Park, Ga.

COAL WANTED

WANTED—To hear from coal-mine owner, non-union, either Tennessee or Kentucky, with object taking output; must be best grade heating coal, free from all foreign matter and priced right. Give best price. Address No. 6704, care Manufacturers Record.

TIMBER AND TIMBER LAND

STANDING TIMBER—Original pine and cypress timber in tracts from 20 to 200 million each. LAFAYETTE MANN, 803 East Main, Richmond, Va.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS**FLORIDA**

THE BEST BUY IN FLORIDA. 12,000 acres high marsh land; can be drained for about \$10 per acre. Good for fig orchards, sugar cane, potatoes, willow for furniture; \$5 per acre net, one-fourth cash. SADLER, Box 484, Fernandina, Fla.

CARR & CARR, INC.
WEST PALM BEACH, PALM BEACH, LAKE WORTH.
References—any bank or trust company in Palm Beach County.

LAND READY TO PLOW.

35-acre farm, 33 acres of it all cleared; splendid land, high elevation, rich soil; 2 acres in shade, with nice little pond; four-room bungalow, small barn and garage; 3 miles east of Alachua, 35 minutes' ride from State University at Gainesville. Price \$3500; \$500 cash, balance on long-term mortgage. Chas. G. Woodridge Co., 217 W. Main Street, Gainesville, Florida.

BEST BUY IN INDIAN RIVER COUNTY FLORIDA

Do you want an independent income? Then buy 10 or 20 acres of Citrus Groves already planted—semi-muck land, near the beautiful City of Vero Beach, Florida. This is the section that produces the prize fruit. We will care for your groves. For prices and terms, address,

C. J. GORE COMPANY
P. O. Box 31, Jacksonville, Florida

FARM, FRUIT AND TRUCK LANDS**FLORIDA****A WORD TO THE WISE!**

Take advantage of buyers' market in Florida while owners of real estate need money. We offer business and home property, groves and river fronts.

GOODWIN & BAKER,
Fort Pierce, Florida.

FLORIDA produces the menu for America's table, from fruits to nuts; heaviest crops produced in the winter months, bringing highest prices in the frozen Northern markets. Finest winter climate in the United States. Approximately \$12,000,000 in our State Treasury; no bonded indebtedness; no State income or inheritance taxes, ever. We have a factory site, an investment, a home, grove or farm for you. Send today for booklet and 1927 list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice. "Since Before the War," Tampa, Florida.

LOUISIANA**COME TO ALEXANDRIA, THE HEART OF LOUISIANA.**

Real estate is very active and cheap, red river-bottom land is very productive and will produce more to the acre than any land I know of. The cut-over pine land is very cheap and productive, the finest variety of vegetables and fruit, much earlier than the alluvial lands. We are shipping 12 months in the year. A great deal of interest is manifested in our cut-over land for reforesting. Tell me what you want and I will tell you where it is. Alexandria, Louisiana, March 7, 1927.

SEE E. M.

E. M. SHUMAKE, REAL ESTATE.

MISSISSIPPI**MISSISSIPPI GULF COAST**

Offering in Homeland Subdivision beautiful building sites, with splendid view of the Gulf, at \$20.00 per front foot; easy terms. The best buy in the fastest-growing section of the U. S. A. Also Orange and Truck Farms.

Twenty-one years in real estate business here.

B. C. COX & SON,
Gulfport, Mississippi.

NORTH CAROLINA

If interested

FOR HOME OR FOR INVESTMENT
In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO.,

Realtors and Investment Bankers.
Nearly thirty years in Charlotte.

FARM, FRUIT AND TRUCK LANDS

TENNESSEE

TENNESSEE FARMS—Improved 50 to 500 acres, near schools, churches, in good communities, near towns. A real diversified section, good climate all the year. Write us what you want. Security Trust Co., Clarksville, Tenn.

VIRGINIA

71 ACRES—For sale, my farm of 71 acres, half-mile Chase City, Va., town of 2000 people, 90 miles south Richmond, Va. 30 acres upland; 20 acres bottom land, balance wood and pasture. All necessary outbuildings, good condition. Eight-room dwelling, painted inside and out, with Delco light and water system. Plenty fruit. Priced to sell at a bargain. Offered on account other business; can't look after farm. Write for prices or come look it over.

E. C. WILLIAMS, Chase City, Va.

WEST VIRGINIA

FARMS AND ORCHARDS—In fruit belt Hampshire Co., W. Va., where crops never fail and fruit has national reputation; 50 orchard, 260-acre farm, 2000 trees. I sell the earth. Write your wants. Josh T. Humphreys, Box 56, Green Spring, W. Va.

BUSINESS AND INVESTMENT PROPERTIES

INCOME FOR FARMS.

New income-producing properties, finest of locations, to exchange for farms, ranches or other property. Send details of your property. Ask for our bulletin.

BARNEY GOODMAN,

1520 Commerce Bldg., Kansas City, Mo.

To MAKE REAL MONEY—I advise the immediate purchase of close-in undeveloped Real Estate in

ROANOKE

Preferably South Jefferson Street.
OSCAR A. WALL (With Realtor)
Box 497, Roanoke, Va.

GULF COAST PROPERTY

GULF COAST PROPERTY.

FOR SALE—700x1700, located on Back Bay between Edgewater Development Company and Government Naval Reserve holdings. Full riparian rights. Beautifully wooded and best 700 ft. frontage on Back Bay. Write for particulars.

T. W. BUDDE,

Arcade Bldg., St. Louis, Mo.

SUMMER COLONY SITE

PRIVATE SUMMER COLONY SITE—1000 acres in Blue Ridge Mountains of South Carolina. Entire mountain. Plateau at top with room for several fine houses. View of miles of mountains in three States. Many other beautiful home sites on property. 300 acres suitable for game preserve. Well timbered. Several small streams. Two small lake sites. 30 miles from Greenville. On two good roads. Price \$25,000; one-half cash. Write John M. Taylor, Pickens, S. C.

GAME PRESERVE

GEORGIA GAME PRESERVE FOR SALE.

10,000 Acres splendid game preserve for sale at a bargain price of \$8.50 per acre. This tract is abundantly stocked with wild deer, wild turkey, quail, squirrel, fox, raccoons and all other kind of game that is adapted to South Georgia. Good game preserves are scarce, wealthy people have about gotten them all and they cannot be had at any price. Unsold timber on this acreage worth twice the money required to buy the property. A splendid investment.

JOHN M. COX, Waycross, Georgia.

BUSINESS OPPORTUNITIES

WANTED—Capital to promote new Hall Cotton Picker. Money maker, labor saver. Patented. S. B. WHEELER, 613 Broadway, Little Rock, Ark.

FOR SALE—Foundry and well-equipped machine shop, stock of merchandise and going business with brick building, well located in good town. Terms if needed; must sell. P. H. Van Dyke, Newport, Ark.

BUSINESS OPPORTUNITIES

INVESTMENT—150 acres bearing pecan grove. Paid 22% 1925, 33% 1926. Associates wanted for this and other pecan development under new, successful system. Bank and character references furnished and required. No. 6705, Manufacturers Record.

SHALE BRICK PLANT

Southwest Virginia's best business opportunity—nearest competitor one hundred miles. Developments in this section make unparalleled demand for product.

Have also two manganese mining propositions. R. P. JOHNSON, Wytheville, Va.

COCA COLA BOTTLING PLANT located in Mid-West city. Large territory, with paved and surfaced roads. Direct franchise. Well equipped. Showed better than 50% increase in 1926. An opportunity to get into this profitable business. No. 6691, care of Manufacturers Record, Baltimore, Md.

FOR SALE at Bankruptcy Court, Omaha, Nebraska, April 16, 1927, at 10 A. M., all assets of Petersen Electric Door Opener Co., consisting of unfinished door openers, parts, office and shop equipment, accounts, stock, good will, etc. This door opener operates most any garage door. Can be manufactured for about \$65.00 and sold readily for \$200.00. A fine proposition for the right party. For information Write

C. W. HADAN,
for receiver,
Bennington,
Nebraska.

FINANCIAL

WE HAVE splendid facilities for handling the financing of Industrial and Public Utility propositions in Louisiana and Mississippi. Correspondence invited.

HENRY A. MENTZ,
Consulting Engineer, Hammond, La.

FISHING CAMP SITES

FREE—TONS OF FISH—FREE.
WHAT ONLY THE MAN OF WEALTH ENJOYED CAN NOW BE YOURS.
FISHING camp sites with wharf privileges at the low price, ranging from \$175 to \$350. Size 50x100; terms 20% down, balance \$10 monthly. Literature free. C. J. HUELSENKAMP, 105 N. E. Second St., Miami, Fla.

FACTORY SITES

TAMPA, FLORIDA—the logical distributing point. **HARRIS TERMINALS**—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for **WAREHOUSE and FACTORY** sites. Prices and terms reasonable. **HARRIS REALTY CO.**, Realtors, 105 W. Cass St., P. O. Box 595, Tampa, Florida.

FACTORY SITE FOR SALE—Tract containing 200 acres, with large clear springs having an output of 3 to 5 million gallons of water daily. Within one-half mile of Central of Georgia Railroad, Chattanooga Division, 4 miles north of Cedartown, Georgia, 9 miles South of Lindale, Georgia, on main highway.

WM. H. TRAWICK, Cedartown, Ga.

HOUSTON, TEXAS—The gateway to the whole wide world. Industrial plant site for sale—15,000 square ft., facing paved street and trackage. Heart of Houston; present income on dwellings \$155 per month. Great future for this property. Priced \$18,000 for quick sale. Bargain. **MARY A. GRAHAM**, 201 Stiles Street, Houston, Texas.

INDUSTRIES WANTED

INDUSTRIES WANTED—Live town in Southside, Virginia. Excellent climate, fine water, three accredited schools; cheap labor, ample power, low taxes, splendid shipping facilities. Good factory sites on trunk-line railroad. Address Chamber of Commerce, Blackstone, Va.

INDUSTRIES WANTED

INDUSTRIES WANTED—Live town in Middle Tennessee. Excellent climate, fine water, accredited schools, plenty of cheap male labor, low taxes, splendid shipping facilities. Good factory sites. Dickson County Chamber of Commerce, Dickson, Tenn.

INDUSTRIAL PLANTS

FOR SALE—Plant suitable for Cotton or Hosiery Mill. Located at Livingston, Ala. Two-story brick building, 50 feet wide by 250 feet long; 10 acres of ground; nine tenant houses; two railroad sidings; electric current from Alabama Power Company available. Can be bought at great bargain. Address A. M. McGEHEE, Avon Park, Fla.

PATENTS

FOR SALE OR ROYALTY—Chiropractor's and Osteopath's Table; can be manufactured of wood or metal. DR. L. H. FOUTS, 331½ Avenue C, Lawton, Okla.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. **WATSON E. COLEMAN**, Patent Lawyer, 724 Ninth Street N. W., Washington, D. C.

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Charlott Office convenient to South. **PAUL B. EATON**, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

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Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our inspection and instructions free. Terms reasonable. Highest references. **VICTOR J. EVANS & CO.**, 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. **Chandlee & Chandlee**, 412 Seventh St. N. W., Washington, D. C.

IMPORTERS AND EXPORTERS

IMPORTER AND EXPORTER, who has just taken over a liquidated N. Y. corporation, which in the past has done considerable business for German interests, wishes to act in an import or export capacity for domestic inland organization. No. 6701, care of Manufacturers Record, Baltimore, Md.

AGENCIES WANTED

WANTED by an experienced machinery and mill supply salesman with 20 years' experience, to handle same manufacturer's line in North Carolina on road.

W. C. CREDLE, New Bern, N. C.

BONDED WAREHOUSE with 140,000 square feet floor space and live sales organization is interested in securing lines of reputable Manufacturers who are interested in securing representation in fast developing SOUTHEAST territory. Can assure excellent sales representation due to our live sales organization and reputation. National Products Company, 1010 Marietta St., Atlanta, Ga.

SITUATIONS WANTED

CONSTRUCTION SUPERINTENDENT—12 years' experience highway work, dredging and sewer and water work.

Civil Engineer, estimator and executive; can furnish references and produce results; can furnish own organization for highway work. Address No. 6708, care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

POSITION WANTED by a capable man acquainted with modern electrical and mechanical repair work; can handle men; age 40. Town or small city in South preferred. Address No. 6703, care Manufacturers Record, Baltimore, Md.

SALES EXECUTIVE—Qualified through experience; ability and personality; 15 years as branch manager; prefer Southeast territory; familiar all territory in U. S. A. Would consider some foreign assignments. Address No. 6702, Manufacturers Record.

CIVIL ENGINEER, 10 years' experience as Supt. of construction work, desires a position in any kind of firm that does not require moving from place to place. Past work has consisted, besides Supt. duties, estimating, buying and handling all business on large jobs. References. Address No. 6707, care Manufacturers Record.

GRADUATE Architectural Engineer, 10 years' experience, wants permanent connection with reputable firm offering possibility of part interest. Experience includes design and supervision and architectural supervision all types buildings. At present, Engineer in charge small bar company. Licensed Engineer two Southern States, with reciprocal license. Hard worker with Engineering sense addition to theory. Present salary \$5000 per year. References exchanged. Address No. 6706, care Manufacturers Record.

MEN WANTED

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation.

American Security Credit Company,
General Offices,
St. Louis, Mo.

THE BUSINESS MEN of McGehee are very much interested in a knitting plant of some kind for men's socks or children's hosiery. They are organizing a stock company and want to get in touch with a man who is thoroughly familiar with the hosiery business as manager. H. L. Shannon, McGehee, Arkansas, for full information.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standing and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established sixteen years. Send only name and address for details.

R. W. BIXBY, INC.,
103 Downtown Bldg., Buffalo, New York.

CONTRACT WORK WANTED

MANUFACTURING PLANT, well equipped and located, wants something to manufacture, preferably heavy machinery. All facilities necessary, including engineering department, patent shop, foundry with a capacity for single castings in either gray iron or semi-steel up to twenty tons; well-equipped machine shop, erecting floors, etc. No. 6683, care of Manufacturers Record.

MACHINERY AND SUPPLIES

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating equipment, delivered and installed, very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY, "Department E," Waynesboro, Pa.

FOR SALE—One 250 h. p. Lombard Iron Works HRT Boiler feed pumps, shaker grates, insurance 150 pounds. Also 250 h. p. Hardy Times heavy girder RH Corliss Engine and water heater. Also Butters Camp Milling Machine, with motor and link belt drive. All in excellent condition. Operated within past 60 days. Plant being dismantled and above for sale at best offer. Inspect at Oil Mill, Pelzer, S. C. Write or wire owner. J. E. LIPSCOMB, Greenville, S. C.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



NOTICE—Manufacturers

I offer for sale at one-fourth of its value an equipped factory at Martinsburg, W. Va., covering three acres, with thirty-two brick buildings, in heart of city and on two railroads.

Plant has been manufacturing wagons and truck bodies. There are 150 woodworking machines, all connected with belting. Property appraised at \$425,000.00.

Population 17,000, with several textile factories, employing 3,000 girls. City needs employment for men, and local capital is willing to support operation and financing this plant. Machinery adapted to making furniture or woodwork of any kind.

Complete information will be furnished.

R. RAY BROWN
Harrisonburg, Va.

IF IT IS property, investment opportunities or an unusual requirement you wish to fill use
OUR GENERAL INTEREST DEPARTMENT

IF IT IS machinery you have to buy or sell use

OUR RESALE DEPARTMENT

MANUFACTURERS RECORD, Baltimore, Md.

A Wonderful Opportunity For Manufacturing Executive With Capital

to secure interest and become head of a good manufacturing business in the South.

We want a wide-awake business executive with \$10,000.00 to \$25,000.00 to join us in the manufacture and sale of a patented line of **portable drum units—hoisting, skidding, stump pulling and various other classes of drum work**—that have proven their merit and are being internationally advertised in connection with and by one of the largest manufacturers of the U. S. A.

Answer quick. This ad will not again appear.

Address A-415

Care of Manufacturers Record, Baltimore, Md.

RESALE DEPARTMENT

MACHINERY EQUIPMENT SUPPLIES

ELECTRIC MOTORS

ALL SIZES ALL MAKES ALL CURRENTS
NEW AND REBUILT

In Stock ALSO Immediate Shipment

Boilers, Engines, Pumps and Air Compressors

MACHINE TOOLS

- 1—34"x84"x30" Sellers planer 4 heads.
- 1—60"x80"x24" Sellers planer 4 heads.
- 1—12" Sellers slotter.
- 1—3 1/2" bar Beaman Smith horizontal boring mill.
- 1—20" Stockbridge shaper motor drive, 4 speeds.
- 1—Ingersoll Cutter grinder.
- 1—Fellows gear shapers.
- 1—No. 3 Royersford D.E. punch and shear 18" throat.
- 1—Buffalo Armer plate punch and shear.
- 1—12" throat type EF Cleveland punch and shear.

THE O'BRIEN MACHINERY CO.

113 North Third Street, Philadelphia, Pa.

Long Distance Telephone: Market 0727

Cable Address: "OBRIEN," PHILADELPHIA

BARGAINS

- 1—100 Kva, Crocker Wheeler De Laval Turbo Unit, 3 ph., 60 cy., 220 volt, 125 lbs. steam.
- 1—7 1/2 K.W. General Electric Curtis Steam Turbo Unit, 110 volt, 150 lbs. steam.
- 1—100 K.W. Westinghouse Generator, 220 volt, DC, direct connected to Harrisburg Steam Engine.
- 1—200 H.P. Crocker Wheeler Motor, 3 ph., 60 cy., 220 volt, 600 r.p.m.
- 3—50 Kva, General Electric type H, form G Transformers, 66,000 to 13,200 volts primary, 230 to 460 volts secondary.

FRANK TOOMEY, INC.

127 North Third Street

PHILADELPHIA, PA.

"Since 1876"

PIPE— FOR SALE

from 1/2 inch up to 30 inches

Furnished plain ends or threaded

All sizes bought and sold

What are you in the market for

What have you for sale

Pipe for every purpose

PIPE & CONTRACTORS SUPPLY CO.

188-198 East 135th Street

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CASEY-HEDGES 80 H. P.

Horizontal Tubular Boiler; Good Condition; Tested to 100 lb. working pressure by Hartford Insurance Co. Complete equipment including breeching.

Price \$500.00 net f.o.b. our plant.

KINGSPORT PRESS

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TENNESSEE

PIPE

Large Stock. All
Sizes Threaded
and Coupled
Mill Lengths

Established 1904

**Albert & Davidson
Pipe Corp.**

256-264 Oakland Street, Brooklyn, N. Y.

Second Hand
and New
Wrought Iron

PIPE

Overhauled
Rethreaded
and Coupled

Also Cut to Sketch

Greenpoint Iron & Pipe Co., Inc.

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IRON AND STEEL PIPE

Large quantity new and used Government material in excellent condition, ready for immediate shipment. Low Prices.

CENTRAL PIPE & SUPPLY CO.
Box 1099 Charleston, W. Va.

Albert Pipe Supply Co.

INCORPORATED



NEW AND USED

New Threads **PIPE** New Couplings

ALL SIZES CUT TO SKETCH

Berry & North 13th Sts.,
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PIPE

Rethreaded, reconditioned, guaranteed, suitable for all practical purposes, furnished with new threads and couplings.

400,000 feet in all sizes from 24" to 36".

Also large stock of spiral pipe sizes 7", 10", 12", 14", 20", and 24".

Large stock of valves and fittings, screwed and flanged. Can make attractive prices.

MARINE METAL & SUPPLY CO.

167 South St., New York City

CODE BOILERS

- 1—80 H.P. Farquhar locomotive 125-lb. pressure.

VERTICAL

- 1—125 H.P. International, 125-lb. pressure.
- 1—80 H.P. Nagle, 100-lb. pressure.
- 1—50 H.P. Sotter Bros., 100-lb. pressure.
- 1—45 H.P. Sotter Bros., 125-lb. pressure.

H. R. T.

- 1—225 H.P. Coatesville, 4" tubes, 135-lb. pressure.
- 2—150 H.P. Coatesville, 4" tubes, 150-lb. pressure.
- 1—125 H.P. Lebanon, 2 1/2" tubes, 125-lb. pressure.

Above boilers offered complete and for immediate delivery. Get our prices.

M. J. HUNT'S SONS

1620 N. Delaware Ave.

Philadelphia, Pa.

AIR COMPRESSORS

- 2168 cu. ft. "Ingersoll-Rand" Type XB Duplex, 21"x16"; with motor; air pressure 30 lbs.

- 599 cu. ft. "Ingersoll-Rand Imperial Type XB2, 16" and 10"x14"; with motor.

- 360 cu. ft. "Chicago" Class NSS, Steam Driven, 10"x12"x10".

- 324 cu. ft. "Ingersoll-Rand" Class ER-1, 12"x10"; with idler and motor.

- 310 cu. ft. "Ingersoll-Rand" Class NE-1, 12 1/4"x12"; with idler.

- 173 cu. ft. "Ingersoll-Rand" Class ER-1, 9"x8".

- 50 cu. ft. "Domestic" Portable, Gasoline Engine Driven.

- 24 cu. ft. "Schramm" Portable, Gasoline Engine Driven.

DELTA EQUIPMENT CO.

148 N. Third St.

Philadelphia, Pa.

BOILER

- 1—250 H.P. Scotch dry back boiler, 130 lbs. now in use (will be replaced with 500 H.P. boiler). Bargain to immediate buyer to avoid extra handling.

MACHINERY RECORD

Richmond, Va.

FOR SALE

- 1—9' Band Saw Mill complete with Filing Room equipment and all necessary machinery for first class operation. For full particulars address,

BERGEN & PECK SAVANNAH, GA.

FOR SALE

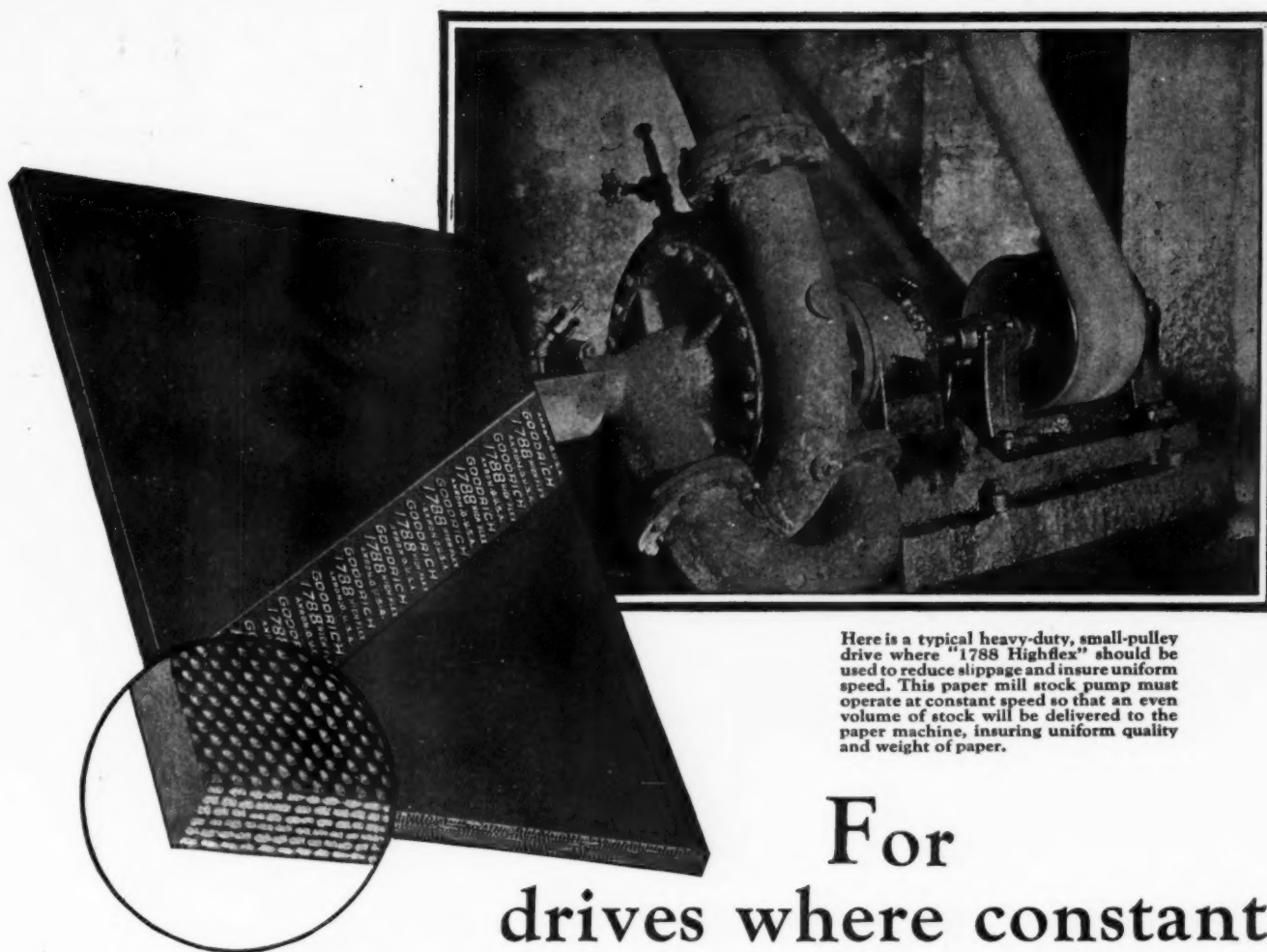
- 1—14x36 Cooper Corliss Engine.
- 1—14x36 Atlas Corliss Engine.

Bargains for quick sale.

THE NATIONAL RETARDER CO.

130 North Wells Street

Chicago, Illinois



Here is a typical heavy-duty, small-pulley drive where "1788 Highflex" should be used to reduce slippage and insure uniform speed. This paper mill stock pump must operate at constant speed so that an even volume of stock will be delivered to the paper machine, insuring uniform quality and weight of paper.

For drives where constant speed is important— "1788 Highflex" Belt

Free bending of ply on
ply.

No folds in the fabric.
No seams to open up.
No ply separation.
No bootlegging.

Made of heaviest belt
duck—50% less stretch.

Compact weave of fab-
ric gives better anchor-
age—fasteners won't pull
out.

Not affected by atmos-
pheric changes.

Longer life.

Send for folder of valu-
able horse-power and
pulley data.

Here is a belt built on an entirely new principle—notice the square edge construction, without seam or fold in the fabric.

Although built of heavy, hard-woven canvas, which enables it to handle the heaviest loads, Goodrich "1788 Highflex" bends so easily—because of the "free edge" foldless construction—that better contact and minimum slippage are assured, even on small pulleys.

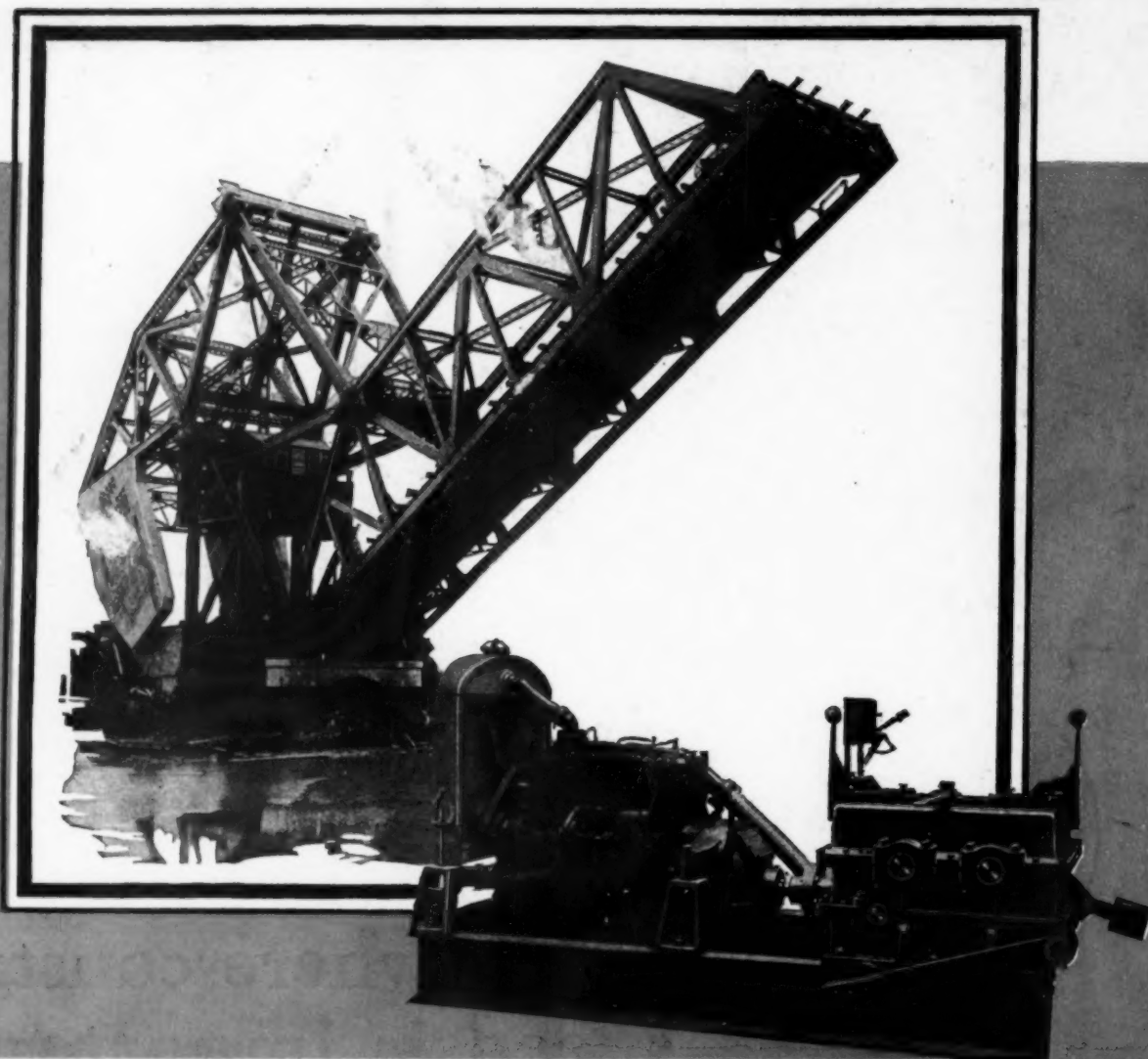
While a heavy-duty belt in every sense of the word, it is ideal for high-speed drives and small pulleys; particularly wherever constant speed is essential.

For freedom from most belt-troubles—for long life and minimum belt cost per year—specify "1788 Highflex". Give it a thorough test on your worst drives.

THE B. F. GOODRICH RUBBER COMPANY
Established 1870 Akron, Ohio

Goodrich

"1788 Highflex" Belt



HERCULES

When the Earle Gear and Machine Co., of Philadelphia, Penna., builders of Bridge Operating Power Units, chose Hercules Engines they did it because;

Hercules, being simple and compact, always permits of a simpler, more compact complete mechanism;

Hercules, being dependable, insures a rugged, dependable operating unit under the most severe operating conditions.

So it is natural that in every industry engineers and operators are specifying "Power by Hercules".

HERCULES MOTORS CORPORATION, CANTON, OHIO, U. S. A.

ENGINES

